

934

<400> 1501

```

ccccgcgtc cgccccacgcg tccgcccacg cgtccggcgc cagcggcctc gccgcccgtc 60
aagctgtcca catccctggc ctcagcccgc cacatcacc tgacctgctt acgcccagat 120
tttcttcaat cacatctgaa taaatcactt gaagaaaget tatagcttca ttgcaccatg 180
tgtggcattt gggcgctgtt tggcagtgat gattgccttt ctgttcagtg tctgagtget 240
atgaagattg cacacagagg tccagatgca ttccgttttg agaatgtcaa tggatacacc 300
aactgctgct ttggatttca ccggttggcg gtagttgacc cgctgttttg aatgcagcca 360
attcgagtga agaaatatcc gtatttgtgg ctctgttaca atggtgaaat ctacaaccat 420
aagaagatgc aacagcattt tgaatttgaa taccagacca aagtggatgg tgagataatc 480
cttcatcttt atgacaaaagg aggaattgag caaacaattt gtatgttggg tgggtgtgtt 540
gcatttgttt tactggatac tgccaataag aaagtgttcc tgggtagaga tacatatgga 600
gtcagacctt tgtttaaagc aatgacagaa gatggatttt tggctgtatg ttcagaagct 660
aaaggtcttg ttacattgaa gcactccgcg actccctttt taaaagtggg gccttttctt 720
cctggacact atgaagtttt ggattttaaag ccaaatggca aagttgcatc cgtggaaatg 780
gttaaatatc atcactgtcg ggatgaaccc ctgcacgccc tctatgacaa tgtggagaaa 840
ctctttccag gttttgagat agaaactgtg aagaacaacc tcaggatcct ttttaataat 900
gctgtaaaaga aacgtttgat gacagacaga aggattggct gccttttatc agggggcttg 960
gactccagct tggttgctgc cactctgttg aagcagctga aagaagccca agtacagtat 1020
cctctccaga catttgcaat tggcatggaa gacagccccg atttactggc tgctagaaaag 1080
gtggcagatc atattggaag tgaacattat gaagtccttt ttaactctga ggaaggcatt 1140
caggctctgg atgaagtcac attttccttg gaaacttatg acattacaac agttcgtgct 1200
tcagtaggta tgtatttaat ttccaagtat attcggaaga acacagatag cgtggtgatc 1260
ttctctggag aaggatcaga tgaacttacg cagggttaca tatattttca caaggctcct 1320
tctctgaaa aagccgagga ggagagtga aggcctctga gggaactcta tttgtttgat 1380
gttctccgcg cagatcgaac tactgctgcc catggtcttg aactgagagt cccattttcta 1440
gatcatcgat tttcttccta ttacttgtct ctgccaccag aaatgagaat tccaaaagaat 1500
gggatagaaa aacatctcct gagagagacg tttgaggatt ccaatctgat acccaaagag 1560
attctctggc gaccaaaga agccttcagt gatggaataa cttcagttaa gaattcctgg 1620
tttaagattt tacaggaata cgttgaacat caggttgatg atgcaatgat ggcaaatgca 1680
gccagaaaat ttcccttcaa tactcctaaa accaaagaag gatattacta ccgtcaaagtc 1740
tttgaacgcc attaccagc cgggctgac tggctgagcc attactggat gcccaagtgg 1800
atcaatgcca ctgacccttc tgcccgcacg ctgaccactt acaagtcagc tgtcaaagct 1860
tagtggtctt ttatgctgta atgtgaaagc aaatatctct tcgtgttggg tggggactgt 1920
gggtagatag gggaacaatg agagtcaact caggctaact tgggtgtgaa aaaaaataaaa 1980
gtcctaaatc taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2031

```

<210> 1502

<211> 1463

<212> DNA

<213> Homo sapiens

<400> 1502

```

ggcgcggaat gttggcctcg cccctgccga cgtcgcaggc tggagctcac ctgggagact 60
ccaagtggaa gccgagctcg gttctgctc tccaggcaac gcgggaggcc cagcgggag 120
gcaggaggcg gcggcgagg aggagctcta ctgagccgca actgtggcga cagcaaccgg 180
agtcgcagcc gccgccacct gcacctggcg cctagcccac gtccagcgcc tgcccggccg 240
cgcttcccg ccaccctgcc ctgcccaccc gccaggtaact accattaaag ataccttctt 300
ctcagcaaat ctatgataaa aaatataagt aacagaagaa gaaataaact ttatttgtca 360
agtgacaagc ttttaatgtc agaatggctc acctaaagcg actagtaaaa ttacacatta 420
aaagacatta ccataaaaaa ttctggaagc ttggtgcagt aatttttttc tttataatag 480
ttttggtttt aatgcaaaga gaagtaagt ktcaatatct caaagaggaa tcaaggatgg 540

```

935

```

aaaggamcat gaaaaacaaa aacaagatgt tggatttaat gctagaagct gtaaacaata 600
ttaaggatgc catgccaaaa atgcaaatag gagcacctgt caggcaaaac attgatgctg 660
gtgagagacc ttgtttgcaa ggatattata cagcagcaga attgaagcct gtccttgacc 720
gtccacctca ggattcaaat gcacctggtg cttctggtaa agcattcaag acaaccaatt 780
taagtgttga agagcaaaaag gaaaaggaac gtggggaagc taaacactgc tttaatgttt 840
cgcaagtgac aggattttctt tgcaccgaga tcttggacca gacactcgac ctcctgaatg 900
tattgaacaa aaattttaagc gctgccctcc cctgccacc accagtgtca taatagtttt 960
tcataatgaa gcgtggtcca cgttgcttag aactgtccac agtgtgctct attcttcacc 1020
tgcaatactg ctgaaggaaa tcatttttgt ggatgatgct agtgtagatg agtacttaca 1080
tgataaacta gatgaatatg taaaacaatt ttctatagta aaaatagtca gacaaagaga 1140
aagaaaaggt ctgatcactg ctcrgttgct aggagcaaca gtcgcaacag ctgaaacgct 1200
cacattttta gatgctcact gtgagtgttt ctatggttgg ctagaacctc tgttggccag 1260
aatagctgag aactacacgg ctgtcgtaag tccagatatt gcatccatag atctgaacac 1320
gtttgaattc aacaaacctt ctccttatgg gaagtaacca taaccgtggg aaattttgac 1380
tgggagtctt tcatttggst ggggagtcgc ttccygatca tgaggaggca aggagggaag 1440
rtgaacctac ccattttaaacc acc                                     1463

```

<210> 1503

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1503

```

tgcaaaaatt acagctggtg cctgtaatcc ccgctactcg ggaggctgac acaggagaat 60
tgcttgaacc tgggagggtg aggtttcagt gagctgagat cgtggcattg cactctagcc 120
tgggcaaccm agagtgaaac tgtctcaaaa aacaactttt atcaatgtct gcaaaaagaa 180
agtcttctgg gatttataga tcaatttagg gagaaatgac attttaacaa ttctgagttt 240
tccaattggt gaacatggtg tactgcccc tttatttaga tctgttaatt tctctcagtt 300
tgcagctctc acattttgtt aaattcatgt atttaatat tctgcatgct attgcaagtg 360
gtaaggtttt caaaaagctg ttttctagtt attgctagta tatagaaatg cattagactt 420
gtacattgat cttgtatcaa gcaacttaga tcagttaact tattctagta gcttttttct 480
agattcttta gcatttttcta tgtagataat catgtcatct gtgaataaag tatttttactt 540
ttccaattta aaaaaaaaaa aaaaaaactc                                     570

```

<210> 1504

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

936

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 1504

```

cgcgctcgact tttttttttt tntgcttttg aaaatcaact atcattttta ttacaatctt 60
aaacactttt gttaaaggga atccaatttt cctcttccaa gggctctcca aacatggaat 120
atgtagggtt tcatcataat ctcaatgttg tttatccaaa tgtatcacgt tatataaata 180
tgtagagggt tccagatgtc aagggcaggg tattagggtc aagtgtggct ggctctaacc 240
tctccactga actcctagag tgagatttaa gttttattta atctaacttt actaattcaa 300
cttagtcgtg taagaaggat atgaagaata tgaattattg tacttcacac tgctactttc 360
atgtacagta tagtagawta atactgacma cyatagacma gragttaaaa ttkgtcyorg 420
gaaaatycty cargatttta amcattgrca ttgccncgga gcgggagaatt cagggcccg 480
aaagnggggc nacttagg 498

```

<210> 1505

<211> 2061

<212> DNA

<213> Homo sapiens

<400> 1505

```

gccggcaccg cagcagcccc aggagggcgc gggcrcgrgg cccggtgcgt gcagcctgca 60
cctcagcgag cgcgccgact ggcagtactc gcagcgcgag ctggacgccg tcgagggtctt 120
cttctcgcgc acggccccggg acaaccggct cggctgcatg ttcgtgcgct gcgcgccctc 180
cagccgctac acgctgctct tctcgcacgg caacgccgtg gacctgggcc agatgtgcag 240
cttctacatt ggccctcggct cccgcatcaa ctgcaacatc ttctcctacg actactcggg 300
atacggcgtc agtcggggcaa gccctccgag aagaacctct acgccgacat cgacgccgcg 360
tggmagggcg tcgcgcacccg gtatggcggt agtcccagaga acattatcct ctatgggtcag 420
agcattggga ctgtccccac ggtagacttg gcctcgagggt atgaatgcgc agggtaattc 480
tccattcccc tctgatgtct gggttgcggt tggcttttcc ggataccagg aaaacatact 540
gctttgatgc tttccccagc attgacaaga tatctaaagt cacctctcct gtgttggtca 600
ttcatgggtac agaggatgag gtcacatgatt tctcccatgg cctagcgatg tacgagcgct 660
gtccccgagc cgtggagccc ctttggttgg aaggggctgg gcataatgac atagagcttt 720
atgcacaata cctagaaaaga ctaaaacagt tcatatctca cgaacttcct aattcctgaa 780
gacaacaact tgatcttacc tcattttactg tgaacagaag agtcctctgt tttgcacatg 840
ctttaactgg gtagctgtaa aggcttgata accatgaaga agtgcccaac ctttaggggtg 900
ttctaataca agagctgatg aaatctcagt cttttgtatc tagagggtgg tctgctaatt 960
cacacaacac gttaaaactga acagtcgtga ttcccagctt cattaccttg caggaatggg 1020
aatgagagct gaatgtaggg acaattttct agtgctgtat aaagtagcct cgcatctggt 1080
tctcaacctt atccatcatt tctgacattc atgcaggact tgccctgttg ccaccaatgt 1140
tctcgggtatt tcacatgcag ctctctttct gccactggat acatgggttc aatccatttg 1200
tgaagctgtg atagtgtaac tggaaaagcta gtgtgggtgaa aattccttta ttattttttg 1260
ttaacatgct gatctttccc ggacaaatga actgaagggt aattttactg aactctcgtg 1320
tacagcttca tcaactgtaa ccatataaat ataactggaa tattcttaaa caaaaagaaa 1380
ctaggggttt ttttaagtgt aaatttatta ctagccaaca gagttttact attttgattg 1440
tctgggttgg ttaacaaaga gcctagctga ctttccttct gtaaagtcct ccttgtaggc 1500
ttttttaaag tactgtacat atttgcaatc acattgtgca tagattctta atggtagata 1560

```

937

```

tgattttcttt  tgtcaggcta  caacaatgaa  ctgcagattc  cttgtttgta  atgtaaatga  1620
ttgaatacat  tttgttaata  tgtttttatt  cctatgtttt  gctattaaaa  attttataac  1680
atttccaaga  caaaaattcc  aagtttatgc  tttgaagaat  ttatgtaatt  aaaatttcac  1740
taaactaatc  tttttagttt  aggaattatt  tgggttttga  cactggaagt  tgcgccaaat  1800
aagcatcaga  aataggagat  gcttaacatt  gctatactac  ttgtgttggt  taggggtttg  1860
gatttggggg  ttcttttggt  ttaatttttt  tttccacatt  taaaagcctt  aaatgtactg  1920
taagcctcag  atcgttgtac  aactggactg  cgggttgattg  ccagtttgtg  tactgttgct  1980
tggatgcggc  acagtgtgtg  gtaatggaat  aaaggatgca  tggatcagaa  aaaaaaaaaa  2040
aaaaaaaaaa  aaaaaaaaaa  a  2061

```

<210> 1506

<211> 2396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 1506

```

cttccttccg  cttgcncgtg  gagctgaggc  ggtgtatgtn  cggcaataac  atgtcaaccc  60
cgctgccccg  catcgtgccc  gccgcccgga  aggccaccgc  tgcggtgatt  ttcctgcatg  120
gattgggara  tactgggcct  gttaggcctg  ttacattaaa  tatgaacgtg  gctatgcctt  180
catggtttga  tattattggg  ctttcaccag  attcacagga  ggatgaatct  gggattaaac  240
aggcagcaga  aaatataaaa  gctttgattg  atcaagaagt  gaagaatggc  attccttcta  300
acagaattat  tttgggaggg  ttttctcagg  gaggagcttt  atctttatat  actgccctta  360
ccacacagca  gaaactggca  ggtgtcactg  cactcagttg  ctggcctcca  cttcgggctt  420
cctttccaca  gggtcctatc  ggtgggtgcta  atagagatat  ttctattctc  cagtgccacg  480
gggatttgtg  ccccttggtt  cccctgatgt  ttggttctct  tacgggtggaa  aaactaaaaa  540
cattggtgaa  tccagccaat  gtgaccttta  aaacctatga  aggtatgatg  cacagttcgt  600
gtcaacagga  aatgatggat  gtcaagcaat  tcattgataa  actcctacct  ccaattgatt  660
gacgtcacta  agaggccttg  tgtagaagta  caccagcatc  attgtagtag  agtgtaaacc  720
ttttcccatg  cccagtcttc  aaattttctaa  tgttttgcag  tgttaaaatg  ttttgcaaat  780
acatgccaat  aacacagatc  aaataatatc  tcctcatgag  aaatttatga  tcttttaagt  840
ttctatacat  gtattcttat  aagacgaccc  aggatctact  atattagaat  agatgaagca  900
ggtagcttct  tttttctcaa  atgtaattca  gcaaaaataat  acagtactgc  caccagattt  960
tttattacat  catttgaaaa  ttagcagtat  gcttaatgaa  aatttgttca  ggtataaatg  1020
agcagtttaag  atataaacaa  tttatgcatg  ctgtgactta  gtctatggat  ttattccaaa  1080
attgcttagt  caccatgcag  tgtctgtatt  tttatatatg  tgttcatata  tacataatga  1140
ttataataca  taataagaat  gaggtgggtat  tacattattc  ctaataatag  ggataatgct  1200
gtttattgtc  aagaaaaagt  aaaatcgttc  tcttcaatta  atggcccttt  tattttggga  1260
ccaggctttt  attttccctg  atattatttc  tatttaatac  tcttttctct  caagaaaaaa  1320
aaaaaagttt  gttttttctt  tattgtcctt  catagcaggc  caagtattgc  ctctctgcaa  1380
tagacagcta  ctgtcaatac  atgctgtaat  ttgacattct  gggtcacaga  tataagggtat  1440
ttaaatacta  tttatgcttt  atagagaaac  cagacattaa  aacttcatgc  actacttatt  1500

```

938

```

togaattact gtaccttata caaattttaca cctagctatt aggatcttca acccaggtaa 1560
caggaataat tctgtgggtt catttttctg taaacaactg aaagaataat tagatcatat 1620
tctagtatgt tctgaaatat ctttaagact gatcttataa actaacttct aagatgattt 1680
catcttctca tagtatagag tttactttgt acacgtttga aaccaactac tgtagaagat 1740
gaggaatcta ttgtaatttt ttgctttatt ttcactctgcc agtggactta tttgaaattt 1800
tcacttttagt caaattattt tttgtattag tttttgatgc agacataaaa atagcaatca 1860
ttttaaattg tcaaaatttc cagattactg gtaaaaatta tttgaaaaca aacttatggg 1920
taataaaaggc tagtcagaac cctataccat aaagtgtagt taccatacag attaatatgt 1980
agcaaaaatg tatgcttgat atttctcaac tgtgttaatt tttctgctgt attccagctg 2040
acaaaaacaa tattaagaat gcacttttat aaatgggtgc taattgataa tggaaataat 2100
ttagtaatgg actatacagg atgttaataa tgaagccata tgtttatgtc tggatttaaa 2160
aattttaaac aatcattttac tatgtcattt ttctttacct tgaagaacat aaactgttat 2220
ttcacttcta caaatcagca agatattatt tatggcaaga aatattccat tgaaatattg 2280
tgctgtaaca tgggaaagtg taaatgtttt tcatggtttc tatcaatgtg aaataaaaatt 2340
taattctgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggcg gccgct 2396

```

<210> 1507

<211> 1153

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 1507

```

accatcacga gaggcaaaagc tggtagcctt gcagtaccgg tccgggaatt cccgggtcga 60
cccacgcgtc cgctgagatt gctctgcctt cttcccacag gactgcctgt tcgcagcgtg 120
gattttaacc gaggcacgga caacatcacc gtgagcaggg ggacacagcc atcctcaggt 180
gcgttgtaga agacaagaac tcaaagggtg cctggttgaa ccgttctggc atcattttttg 240
ctggacatga caagtggctt ctggacccac gggttgagct ggagaaacgc cattctctgg 300
aatacagcct ccgaatccag aagggtggatg tctatgatga gggttcctac acttgctcag 360
ttcagacaca gcatgagccc aagacctccc aagtttactt gatcgtaaaa gtcccaccaa 420
agatctccaa tatctcctcg gatgtcactg tgaatgaggg cagcaacgtg actctggctt 480
gcatggccaa tggcngtctt gaacctgtta tcacctggag acaccttaca ccarctggaa 540
gggaatttga aggagaagaa gaatatctgg agatccttgg catcaccagg gagcagtcag 600
gcaaatatga gtgcaaagct gccaacgagg tctcctcggc ggatgtcaaa caagtcaagg 660
tcactgtgaa ctatcctccc actatcacag aatccaagag caatgaagcc accacaggac 720
gacaagcttc actcaaatgt gaggcctcgg cagtgcctgc acctgacttt gagtgggtacc 780
gggatgacac taggataaat agtgccaatg gccttgagat taagagcacg gagggccagt 840
cttccctgac ggtgaccaac gtcactgagg agcactacgg caactacacc tgtgtggctg 900
ccaacaagct gggggtcacc aatgccagcc tagtcctttt caaacgtgtt ttaccacaaa 960
tccccacccc cattcaagaa attggtacca ccgtgcactt caagcaaaaa ggacctgggt 1020
cggtagagag aataaatgga tccatcagtc tggccgtacc actgtggctg ctggcagcat 1080
ctctgctctg ccttctcagc aaatgttaat agaataaaaa tttaaaaata atttaaaaaa 1140
cacccaaaaa aaa 1153

```

<210> 1508

<211> 652

<212> DNA

939

<213> Homo sapiens

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (622)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (637)

<223> n equals a,t,g, or c

<400> 1508

```

cccacgcgtc cggcggagaa ggaccccggc cgctcagccc cgggcgcgcg ctccgcagcc 60
gcggccctga agcagctggg ggactcaccg gccgaggaca agtccagctt caagccctac 120
tccaagggct ccggcgggcg cgactcccg c aaagacagcg gctcctcctc ggtgtcttcc 180
acctctctct cgtctctctc gtccccggga gacaaggcgg gcttcakggt cccagcgcgc 240
gcctgccccg cttttcccc gcattggagcg ccggtctccg catcctcgtc ctcgctcgtcg 300
ccggcgggct ccgcggggcg ctccccgcac cactctgact gcaagaacgg cggcggggtt 360
ggcggcgggg agctggacaa gaaagaccag gagcccaagc ccagcccgga gccggcagcc 420
gtgagcccg cgggcggtgg ggagcccggg gcgcacgggt gcgccgagtc cggggcctcc 480
gggcgcaagt ccgagccgcc ctggcgctg gtggggggcg gccacgtggc gccggtgtct 540
cctacaagcc gggccactcg gtgttcccc tgncccttc agcattggct accacggctn 600
catcgtgggc gcctacgcc gntaccgctc ttaattnctg cctggcctgg at 652

```

<210> 1509

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

940

<221> misc feature
 <222> (1218)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1226)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1227)
 <223> n equals a,t,g, or c

<400> 1509
 tgcaattttcc tactaaatcc agtctgtcaa gatggttttg gtnggtgttt tttgagctcc 60
 actccagcct gncaccagag cgagctccct tctcaaaaaa aaaaaaaagt aagaaagaaa 120
 aggactccct tagaatggga aagaaaaatc ataaaaatatt gagctgatgc ctgtatatag 180
 aaattaagcg tttctcgaaa gctgttctat gttttgctgt tatttttagtc tttattctct 240
 tccttttaggt ggagaaacaa agtaccaatt tgaagggaatt ttttttattt tgtcttttgg 300
 tttctgtcag tagaaataac catatgtgct aaccaaattt ctgtgaagaa tgttttcatg 360
 gttatcatta tatctaacta taacctcccc catagttagt aagagtaacc tgaaatgcca 420
 ctattgtgga aataggataa ttgtaattgt gaaaaataa ttttaaggaa atcttacaag 480
 tattacatta aaaagatact atgactgcca cctgccattt accttctaata aacctgcca 540
 tgtggtttgc agaaagagat ggatatagta gcctcagaag aaatatttta tgtgggtttt 600
 ttgtttttcg ttactagatt tcatggatga ggggatattg ttgacctttt accttttaata 660
 ggagcagcca gtttttgtta attactcact tgtaaatgtg gagattctga attccttacc 720
 tgctattctt gtacttgtct caggccaaat ctatgctgtg gttcttatga gacttgtatg 780
 aagatgccct gatttgtaca gattgaccac gggaatacta ctgccatgta atctgtatag 840
 ttccagataa tttgtcatga acattgacag aatgacaatt ttttgtattt gctttttctc 900
 cctttaagag cacattcttc tgtaaggaga aaggcagcat tctggctaaa atgtgtagaa 960
 ggtaattttac tacacttata aaatagtgtg acttttgtga aaattttgaa ttagctttca 1020
 tatgaagtgc cttaagtaga ctcttcatit acttttctgg taatggttta aatatcattt 1080
 gttatgcatt tttaagatac agttcagaat gacacattgt agtggcaaag ataaccaaatt 1140
 gtctggctgt ttgctttttg accatatcaa taaactttta caatctaaaa aaaaaaaaaa 1200
 aaaaaaaggg sggccgcncct aggggnncca 1230

<210> 1510
 <211> 1013
 <212> DNA
 <213> Homo sapiens

<400> 1510
 tttttttttt tttttttttt tttttttttt ttttkytcct tcaatgggk ctattcatac 60
 acatatagcc cctttccact gctcagtgtc ggkgatgtga ctcaraaggg ccacattttc 120
 gctgggtccc atctaaaagg ctgacactgc agtgaagggc atgctaagtc taggcacagg 180
 tcctggcagc aggaaggaga cagagcctct cccaggcaca catccccggg tggagacagt 240
 ggaaaagaac cgaggacagg aaaggattgg gtaggtgaag gggtcagggg actggtagtc 300
 acccaatctt ggagaggtgc aaaaagcact gggggctacc cgtttagctgc atctgccctg 360
 gctgtttgcc cgttcatgtc aaaaactgcc actactatgt acctgcagtg gggttgcaga 420
 gatggggggag actcaagtct tactccccag gagctccag ggcccaagga ggagaatgct 480

941

```

gcctcctttc agtctggtct acacccactt tctggtagcc tctctgcttc ctgtaattct 540
ggctggtttt ccagactcag ctcaaatagt gcccctcctt aagcccatcc ctgccccca 600
gcctgaggtg atctttccct cctctgaact attagagcag ttactgtctg ttcagttcgt 660
ttggcaggca cacacagtgg cataaattct attgttttga actctgattt aaaattaaat 720
tgcagctggg cgtggtggct catgcttgta atcccaacac ttagggagtc aggagaatca 780
cttgagctca ggagttctag accaatctgg gcaacagaga gaccccatct cttttaaata 840
aaaagttaaa ttgcttaatt tcccccgat tcttgccctg tctgccccct tcacataatt 900
ttaacctggt ttcttgtatg taaactcctt gagggcaaga acatgtttga acataaaaaa 960
aaaaaaaaaa aactcgaggg gggcccgtcc caattcgccc tatagtgagc gat 1013

```

<210> 1511

<211> 456

<212> DNA

<213> Homo sapiens

<400> 1511

```

caggaagccg caaaaagttt ctgagccccc gaacctgtag cggacgtgga aaaagaacgc 60
ccctcctcaa gtgtctggct gaaagatgcc acccaggga gggaaactcgg gctagctaag 120
gaggccattc ttgatgttgc ttctagatct catgtcatca ccgagccctc agctgctggt 180
ggcagctgct cagcagaccc ttggcatggg aaagagacgg agtccacccc aagccatctg 240
ccttcactta gctggagagg tgctggctgt ggccccggga ctgaagccag ctgtgctcta 300
tgattgcaac tgtgcagggg catcagagct ccagagctat ctggaggagc tgaaggggct 360
tggtctcctg acttttggac ttcacatcct tgagattgga gaaaacagcc tgattgtcag 420
tcctgagcat gtatgtcagc acttggagca ggtgct 456

```

<210> 1512

<211> 2167

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1745)

<223> n equals a,t,g, or c

<220>

942

<221> misc feature
 <222> (2063)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2112)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2156)
 <223> n equals a,t,g, or c

<400> 1512
 gatcactccc cctcctcagt gatgtacatg tgtaggtgtg gcatgtttct gctcttggcg 60
 ttcttaccct atgtacatgg ctgcttgaca ctgcttttct gaaggttgta aagaacctct 120
 gtgatacatg aaaagataat gaacaccttc gtcattaggg aaatacgact cagaaccaca 180
 gtttagaggac gagtgttggc aaggatgtgg agaacttggg gctgtaaaat ggtgcagctg 240
 ctttggaata caatctagca gttcctcaga angttaccaa aaggtcatat agagttaccc 300
 tatgaccag caatttcact cctagctata taatcacaca aaaaacacaa atgttcatag 360
 cattacttat aatagcctaa aargggaaac aacccaaagt gtccatcagt taatgaatgg 420
 ataaagagtg tgcattcatt catacagtag gatgttactt ggcaataaaa aggaatgaa 480
 tattcatata tactgcagta tagatkaacc ttgaaaacat gcggagtgaa araaaccaa 540
 tacgaaaggc cacgaattac atgrttccat ttttaggaag tgtccagaat atgcaaatcc 600
 atggagacag aaagtacaga ctggtgactg ctaaggatgg gacaggggga atgagcacta 660
 gtcagtatac ggtttctttt tggggtggta aaaatgttct gtagtgggtga tggttgcaca 720
 actgagtata ataaaacata ctgaattaty tatttttaaaa gggtaaggct ggactcagt 780
 gctcacgcct gtaatccag cactttggga agctgaggtg caaggattgc ttgggaccag 840
 nctgggcaac atagttagac gtcactctct caaaaaatta aaaatttagc caggcggtgt 900
 ggcacatgcc tatagtccca gctatttggg tagccaagggt gggagaattg cttgagcctg 960
 ggaggtcaag gctgcagtga gttgtgactg cccactaca ctccancctg ggtgacagag 1020
 caataacctg tctcasaaaa aggaggtaca ttttatggta tgtcaaaaaca tctgaataaa 1080
 actagtattt aaaaaaaaaa aaccttggga aaatacaatc agtatatacc tctagtgtggc 1140
 caaaatgata ttctcaatg actattttta cgattaaata actgacagat atttaagaaa 1200
 ctgtttgaag aaggtttaaa cattcaaaag caaagattac gagacctaa aaactatgcc 1260
 aaagaaaagc gagatgaaca aaggagacgc caccaggatg aactggactc catggagaac 1320
 tactataagg accaggtggg ctccctggcac ttgcttacgc tgttgtgctt agtcctgmcc 1380
 acttgccctt gtggcaaac ttgcttagtc tgttgacaat aaaccttgtg ttaactgaag 1440
 tttgcaactc acagattaga ggacccatt tcaagattga aatttaagat caaataatac 1500
 ctgaccatag tacagtatat ttccctatct ccattaaaat gattttaagc ctgtgaacat 1560
 taagaaatgt tacatttggg ctacaaacat taaatataat atttggtttt tttcttccta 1620
 taaacagttt tcattgctgg cagaagccat atcacaggaa catcaagaac ttaaagccag 1680
 agagaaatct magcccagg aataattaag atagaagcca agtcatgcac tgcattggca 1740
 tgttnccttc agcaaggagc ctcgtagatt ggtgtgtgga gcaataggct gtatcatata 1800
 gccccggtgt gcagtggact gtactctcta ggtttgtgta agtacactga cattttgcac 1860
 aacaacaaaa tcatttaatg atgcatttct tggaaacatat ctccatcatt aagtgcacac 1920
 tgactaattt acatttttag gaagtagaaa accaaatgta ttataacctg aaagggaatg 1980
 gagagaagac taataaggca atccatctat gacccaagac atttttatcc tatgatttta 2040
 acttttagtta ggtctctgta agngctggct gttgctagat tatttgaaaa ttttgggagg 2100
 gaggtttggat tngctgggag gatgggagag gggaaccatt ggttgagggg cccgntaat 2160

943

tgctgtg

2167

<210> 1513

<211> 832

<212> DNA

<213> Homo sapiens

<400> 1513

```

cgctcacctc tcccttcccc aacccttctc tacttggtcg ctgttttaaa gtttggaagg 60
aagaaaaata ggtgtataaa atgttttcca tgagaaacca agaaacttac actggtttga 120
cagtggtcag ttacatgtcc ccacagttcc aatgtgctcg ttcactcacc tctcccttcc 180
ccaacccttc tctacttggc tgctgtttta aagtttgccc ttccccaaat ttggattttt 240
attacagatc taaagctctt tcgattttat actgattaaa tcagtactgc agtatttgat 300
taaccaagct tctgcagatt ttgtgattct tgggactttt ttgacgtaag aaatacttct 360
ttatttatgc atattcttcc cacagtgatt tttccagcat tcttctgcca tatgccttag 420
ggcttttata aaatagaaaa ttaggcattc tgatatttct ttagctgctt tgtgtgaaac 480
catgggtgtaa aagcacagct ggctgctttt tactgcttgt gtagtcacga gtccattgta 540
atcatcaciaa ttctaaacca aactaccaat aaagaaaaca gacatccacc agtaagcaag 600
ctctgttagg cttccatgtt agtgtagctt ctctcccaca agttgtcctc ctaggacaag 660
aattatctta caaactaaac tatcatcaca ctaccttgta tgscagcacc tgggtaacag 720
tagrggattt twatacatta atcttgatct ggtttaatct tgatctgggt tagtagagat 780
ttttatacat taatcttgat ctggtttaat cttgatctgg tttgcctaaa aa 832

```

<210> 1514

<211> 1364

<212> DNA

<213> Homo sapiens

<400> 1514

```

gaatcccact ccttctctcc acttggtaat tagttacata cttttttgta attgtttatt 60
tggttgctgt ctccctctca agaatgcagg gaccatgtct gcattctgca gtaatcacta 120
ctgcacaccc agaatctatt acagatcctg gcatgtagct gatgcataaa tattttgttg 180
atgaaagtct gtacattgta tttatgctat tggatttgct atgacctgaa actaaaagg 240
gttgtggaaa agatttctta tggaaacagaa atatcccttt tgattaatat cacaatctcg 300
taaattgaga aaacaaaawaa tatatactac tggagcattc atgtatagtt ggagattatg 360
actcatttat tgggtgtgtt ttggactcag aacaaagatg agggaaatatt ccttaaagct 420
ctgtattgaa ataacgaaaa gcagtcacat tttaataata gaagcttcct agcttactct 480
ttctgtaatc ttcttttctt aaatgtaaga gagcctcata attatgaggtc ttattactag 540
agtaaggctg tcaaaggcag caaaatgtct ttctgtttgg aagaataaca taaacttgac 600
atgtatgggt ggggacagaa gggttcaaaa gtttaagaat ctgtgttggtc ttaacaaata 660
gatgcttctc aaggasstta cgytagtggt tactctgtcc agtcagggtt ttttcttctt 720
taacttgggt tcatttctct atggcacaca tgaagtttgg atcatatggt ttgacttttag 780
ctatgggtcct tagctatggg gagcagcatc agcgacctgt gacatgtaaa ttaaaaaatac 840
aatgccaggg ccttccccca gcccctctga tagagaacct cttggccatc tgtatttttta 900
gatgttccag gttagtctga ttaacaccct tgggttaagaa ccattggggag gatctgattg 960
ccagtttaag gggaccttca agcctgtagg tctttatagt taaaaaaaaa aaaagatttt 1020
aaaaatcatg catatgttgt ggctgaawtc tgggttagca catactgctt ttaatggcct 1080
gaaatgtttt tcccaataaa attstcttgt tatagctttc atgtgtgatt tgggtccagct 1140
tcttgttttt aagatactta cgggggggaa cacttttgta tttctcttag taacatatta 1200
accacttaa aaacccttct tattacaggt cttcacattt aggccttaatg tgcttaattc 1260
aaatgtaaaa atacacctgc ctttgttctc agtgaaagta tgtaataaat aaatgagggg 1320

```


944

ttggcaaact actgccacc atctgttttt ttatggccta tgaa

1364

<210> 1515

<211> 1493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 1515

```

atctctgnct cgtatccgcc ttgcctccac aagtgtctggg attacaggtg tgagccacca 60
caccggccct atattgtttt gaaagcatat tctatatata gttaygggca gaggcacagg 120
catcctcagc agctgattca ggagatgatg gtaaaagctag ctaactatga attaaacatt 180
cacatatcca gtctacctgg tccagtaata atacaagcaa atcttgtatt tcaggaacaa 240
atcaagggttc tcttaatttt ttggcttata tacaatgaag taaaaacttg ataaacatgg 300
tttcaaattg aggaggagag tcttggatgt atgttttaaat atgtatacct tataattctg 360
cctctagcca aatgctatgt ttgcaaaatg tggcatctgt tagtttttat tgtctgtgtc 420
ttctttgttt actatacctt gggtaatttt gtgttaccac aaaaaaaaaa aaaaagggaag 480
tgtaatgtca gacacacaag aaaagcaaat cagtgttgta agcttaaaagt acaatttcaa 540
aggtcattac caacagcagg gtttttttta tactttaaaa acattatgct acatatcatt 600
gccattttca tattttgggg ttttgctact cttatacaat ggaatcaatg gaaatgtcat 660
ccagccactg aattgccatt attatatcta aaaagtcttct aagatgacag ttatcactat 720
tttgttttat ctccatgctg acatttgaaa gaaggtaacta gtatccctct agccagattg 780
cttagttttt cgttggtaat caaacaacag ttgtactaaa ggaaagtaaa gctaggacct 840
aaatcagaat catagttgcc tgcataatag gtaacaaggc cgtgtgcatt tgctttcaca 900
gtgatgagtg agaggatgag aagaaattat ttgacatttt tctgtggttg aatagaagac 960
acctttcttt tgtcttttagg tttaggagga gatactaaga tactggatgt ttatcctatc 1020
ttagtttggg tggagtaata agagagaaga agagggtgga ctttggcttt tcagtgtttt 1080
ttcccctaaa gagtgatatt gctgacgttt ctatcaattt tacacataat atgtggctat 1140
gaaaccatat atctcactta agtaacaaag taatcacttt gtctatcact aagtaataga 1200
caaaaatcat tgtctattat ttaaagccaa caaaacagtg taacagtttt aagttcaata 1260
atgttaagta ttgtatagaa atatattgga ggcaaagttc agttgatgac aattgtgtat 1320
atgttactga tgctgtaaat tatttttaaat aaagaaaatt gtattatcaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggggccntt tna 1493

```

<210> 1516

<211> 2109

945

<212> DNA

<213> Homo sapiens

<400> 1516

```

agcactagct ttgacatcca cggtgagctg caggggaagca tcacacacca gccagcatgt 60
gagcagaggg aggcagttgg ggttgaactt cggaactagg ccgggtctyc tgacagatca 120
caagacaccc cagaggatct tcagcagtc tcttcccat tctctataga gctttgaagc 180
ttggaaccct tccagggtaa acattttctc ttgtgctgct yaggacatyt ggggcctagc 240
tcctgggttc ctgtctccaa gaagcaatga ccttaaaactc tgagccatac tctgtcctca 300
ccagcgggtc ccatgttttt ctgtgtcagg ttattaagta cctagtcctt gttttctgtc 360
tctstcctaa gctacctctc tgggtccaca gaagacttgg tagtatagtg agaatggcta 420
tacgtgagta caaacrtgga ttttccaggg cttgggaamt gattcttgag cccagaagag 480
ccamgcctgc tttgaggtct tttggagtgg agatgcagcc ctgggaaatt tggggagtca 540
gcaggccagt gtgaagctat tggtcctagg agtatatgag cttgctgttt ctttgatgga 600
aaatacatgc ttctcttgta tactcagaag tgactaaggg caataactca ttaatagcca 660
tctatccaac ttctttactg agtgatgtat tccatggggg tacctttttc agattattga 720
gttgctctgt aagcactaaa actttttaat catttttaag aaacttttta gattgtatta 780
caaatttgcc ttaacagtaa ttagatgttg aatataattt taacatttta ttaatgactt 840
gggtcatcag ttaataccag tactaaaacc atacgaatta ttggtttatt ccagaaaata 900
cagtatttgt tctattttta ggtagacaat catttgggat cagagtacat tagcatagta 960
atgctcagtc agacctgttc aagtagtaga gcttggagaa tgccatgaaa tacttatata 1020
attaatttga ttgcatgaac taagcaattt tactaatgaa aagggtgtat atgtgcaagt 1080
cactttttta aaaaccaaga aaaaacttta atagaggaaa tcttattcat taatttattt 1140
ttctgagtaa aaaaacgaaa cccaaatctc attttatttc aactgttaaa cattttgatc 1200
tgttgaccca taggatcagg atttggaac cactttacta ggaaagagca gatcagttacc 1260
atttgataaa aaccggcctc attatgtaag aaagaaaatg ttacgtgttt tcttctttag 1320
cttggttgtg ggcacttcta cagcaaggac catatcatat tcatctttgc atccctggca 1380
cagtgcataa gacataagta ctttaataat gcagttgaat ggataatgat tagtgttatt 1440
tatggattag aaaaagcatg tttctattta agtaagctgt aaaaagtatt attgaatatt 1500
tactgtaaat atatgttcac ataaaaaaat aacttggagg gtcttttgtt ccttggcata 1560
ttatcatctt catggaaaga atccactgtg gtttctgtag agtgattgga aaaatggatt 1620
atthttgagga ttgaagaaag tgttctttct gcgttgtcac tttgttcaac agtaaaactt 1680
tattctcagt gttcctactc tgcattgttt acatttttga cagttttttt taatcaccta 1740
caatctgtaa agaattgata tattcttttc agcatctcag ttgaaaaga catgcagtta 1800
aacttgacct tttgataatc gctcttacag gtcattgtct gttctaacag caaattgtaa 1860
acatgtgctt catagatatt gtggctctca gtcatcactt tgtcctatgg tatttattga 1920
atgttcacat actaatggtg cacaggtgtt tttttctata aatcttctga ctgtcctgta 1980
attcattctt aagctttaac ttgaaggtat cgtaattgcc ggcatttgat gtttagcaat 2040
aaaagaataa atgtgtacca gcatttttatg tttaaaaaaa aaaaaaaaaa actcgagact 2100
agtcctctct                                     2109

```

<210> 1517

<211> 590

<212> DNA

<213> Homo sapiens

<400> 1517

```

gcttctccaa atcaaaccac agtatatgtt gtaacaatat ctatgaccac tgttagccca 60
ttatattcat tccaattaga agaaatgtga atactatatt ccgtgttttg agtgacaagt 120
ttcgaaaaat aaaaayacwg trttttttaa agggaaatgc acttaaatga aaacagttat 180
tacaaaagtt aagattttaa aagaaaaagc aagagttttt attatgatgk aataccagta 240

```

946

```

gaatattttaa aaggcacacc acatctgaat aatcaatgta aatattttct ttcaaagttg 300
taagttttca tatcatgtgc tgtaaagttt tcttaaataa ggctttaacg taaacactgg 360
tgacataaac cattcattgc tacgttgctt attgtgtttt tatgctgttt tatacttttt 420
tatgagttat gatagcagca attaagttgt ttgtattttg cttaactaaa acaaaaatgc 480
ttttatcttg ctatagaata aacacatttc agtaaaaact gtggactgta ttttgatgca 540
acaacaaaga aactgttcac ttttcaaata aaatgatatg tcagaaaaaa 590

```

<210> 1518

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1518

```

cgtggctgag gggacccggc gcgggaggag cgggcgcggg cgcgaaaggg agatctttgt 60
gagtgatattt gcaaaaatag attgcgaggt tggttggatt tgcaacctgt ggctctcctc 120
gagggagtaa gaatggggga aggcgcggcg gcggcggccc ggggagggag tgggtagagt 180
tggagcctca gaaatcggct gagctccggg ggcgggcggg gagaaagggc gggggggcag 240
caggagctag gggccacccc gctgccggat gtagtgaccg tggtaaagtgt cttgagaact 300
gtgggttgcg ttgcctttat gatgccgtgt tattggaacc ctggcgaaaa atggaactag 360
tgttgcaata atgagtttta aagctcccc atggaaaaca aaaacacaaac caaaccgatt 420
tttta 425

```

<210> 1519

<211> 1186

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1177)

<223> n equals a,t,g, or c

<400> 1519

```

ggaaaacttg aagtccaagc cgtgctgctg attccgtctc acagttttaa gactgtccag 60
aaacttttaag ctttcaaaac tgtacatttt aaaatcctgt gcgtttatct tcattttgct 120
gggcagaaaag ccaaagtact ggactgcctg gtccagggtt gaacgcctag tacacctgct 180
aacttgagac ttcagagcca tggcaaccaa ggagtcaaga gacgcaaaag cacagttggc 240
cctctcctca tcggccaatc agagcaagga agtgccctgaa aacccaaact atgctctcaa 300
atgtactctt gtgggacaca cggaagcagt gtcacagttt aagtttagtc ctaatggaga 360
atggctagca agktcttctg ctgataggct aatcataatt tgggggagca tatgatggaa 420
aatatgagaa aacactctat ggtcataatt tggaaatatc ggatgttgcc tggkcatcag 480

```

947

```

attcmagkcg ycttgkttct gcctyaratg ataaaactct aaaattatgg gatgtgagat 540
ctggaaaatg tttgaaaaca ctgaaggggc acagtaatta tgtcttttgt tgtaacttca 600
atccgccatc caaccttata atctcgggat cttttgatga gactgtaaaa atatgggagg 660
tgaaaacagg aaagtgtctc aagactttgt ctgctcattc tgaccaggtt tctgctgttc 720
attttaattg tagtgggtcc ttgatagtgt caggtagcta tgatggcctc tgtagaatct 780
gggatgctgc atcaggtcag tgtttaaaaa cgctcgttga tgacgataac cctcctgtct 840
cttttgtaaa attttctcca aatggtaa atacattctcac tgcaactttg gacaacactc 900
ttaaactatg ggattatagc agaggcaggt gcctgaaaac atacactggc cataagaatg 960
araaatattg catatttgcc aatttttcag ttactggtgg aaagtggatt gtgtctggtt 1020
ccgaggataa ccgggtttac atttggaac cttcagacta aagagattgt gcaggaaatt 1080
acaaggccat acagatgttg tgatctcagg cagcttggtc atcctacagg aaaacctcat 1140
cggcntcagc aggcnttagg gaaaatggac aaaacantta aactgt 1186

```

<210> 1520

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 1520

```

tcgacccacg cgtccgcaca agargaccaa acatgtacca agtgggtgctt ctgtttgttg 60
ttgtccctga gctgcaggaa catcagtcca aaccgagcag gccatcacc agagtagcag 120
acaaccctga agagggcaga gagccacata atgacaggcc tgtgagcatg gcctttgggt 180
gccagccaga gcatgtgtat gctgagtgtg gaaagaccta cagaccgcc ccaaccccc 240
agctctttcc acagtccacc gtaganaaca ccacccccctc ctttaccagt gggacacaag 300
aatncttgtt tgtcttcctt atttccattt ccagaagact tttttccact ccaactttcc 360
ttcctccgca atttgcaatc cctttgttgg ctttataagt tattaagctt tttccactcc 420
tgggtggctt tttcccccta gcnagctccc ctganccag 460

```

<210> 1521

<211> 1672

<212> DNA

948

<213> Homo sapiens

<220>

<221> misc feature

<222> (1583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1645)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1663)

<223> n equals a,t,g, or c

<400> 1521

```

ccagcctcca ggcacccggg atccagcgcc gccgctcata acacccgcga ccccgagct 60
aagcgcagct cccgacgcaa tggacccggc gctggcagcc cagatgagcg aggctgtggc 120
cgagaagatg ctccagtacc ggcgggacac agcaggctgg aagatttgcc gggaaggcaa 180
tggagtttca gtttcctgga ggccatctgt ggagtttcca gggaacctgt accgaggaga 240
aggcattgta tatgggacac tagaggaggt gtgggactgt gtgaagccag ctgttggagg 300
cctacgagtg aagtgggatg agaatgtgac cgtttttgaa attatccaaa gcatcactga 360
caccctgtgt gtaagcagaa cctccactcc ctccgctgcc atgaagctca tttctcccag 420
agattttgtg gacttggtgc tagtcaagag atatgaggat gggaccatca gttccaacgc 480
caccatgtg gagcatccgt tatgtcccc gaagccaggt tttgtgagag gatttaacca 540
tccttgtggt tgcttctgtg aacctcttcc aggggaaccc accaagacca acctggtcac 600
attcttccat accgacctca gcggttacct cccacagaac gtggtggact cttcttccc 660
ccgcagcatg acccggtttt atgccaacct tcagaaaagca gtgaagcaat tccatgagta 720
atgctatcgt tacttcttgg caaagaactc ccgtgactca tcgaggagct ccagctgttg 780
ggacaccaag gagcctggga gcacgcagag gcctgtgttc actctttgga acaagctgat 840
ggactgcgca tctctgagaa tgccaaccag aggcggcagc ccagcccttc ctgcctcctg 900
cccactcag ggttggcgtg tgatgagcca ttcattgtgt ccaaactcca tctgcctgtt 960
acccaaacac gcctctcctg gcagggtaga cccaggcctc taaccatctg acagagactc 1020
ggcctggaca ccatgcgatg cactctggca ccaaggcttt atgtgcccac cactctcaga 1080
gaccacgttt cctgactgt catagagaat catcatcgcc actgaaaacc aggccctgtt 1140
gccttttaag catgtaccgc tccctcagtc ctgtgctgca gccccccaaa tatatttttc 1200
tgatatagac cttgtatatg gctttaatgc cgcaaaatat ttatttttcc ttaaaaaagg 1260
tgtcaacttg gaaataatgg tttaaaaaca ggataagcat taaggaaaaa cactttcaat 1320
gtgtcttcca tttgatgaat ttgttttkct ctctttatcc ccgcaagtgg agtttcatgt 1380
cctcggtgaa accagacagt gtgaatctgt tccagcccaa atctgcagca ttagggatga 1440
gttctcrgaa gtgattctga actgagcacg cactcatgtc tgcatgggga actctgggga 1500
gaagagcctt ctttttcttt cccttgggcc atttgctttt cttgtcgtc ttactgaggg 1560
cggaggcagg gagggctctc gtncctttcca gggccctggg cagggccatc ctggccattc 1620
agggaaagat gggaagagtt agggntccg ttttaggcag cntgggtgg ga 1672

```

<210> 1522

<211> 588

<212> DNA

<213> Homo sapiens

949

<400> 1522

```

aggcgtatac caccatgact gaaaacaaaa gacttttttt tgagactccc tctcaaaaac 60
aaaacaaaac aaaaaaatta gacaaatgct acattaatgt ttgggtgggtc agattctact 120
ttgaatctga agtttgcaga tatgcctata gatttttggg gtttaccact ttcttattct 180
gtatcattaa tgaatatatt taaattacta tatatgttac catttttctg gatttagtaa 240
gaaatttgca gttttgggtt gatgtaacaa gggttttaat gtaatttatg ttagattttg 300
catttttttc attactgtta tattttaacc tgactgactg atctaattgt attagtattg 360
tgaataatca tgtgaaatgt ttgagacag agtactatat ttgtgaatat aattttatgg 420
tttttttcac ttagaacctt tctgtgtgga aaactaagaa aattgctttc tgctgtataa 480
tctggcattc attgtagatt aaagcttatt tttctgtgaa taaaacgtat tcaataaaat 540
actattcttt aaaattawaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 588

```

<210> 1523

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 1523

```

cggcagcagg attttactga tactgcttat ctgttttaaaa ttcagataga aagtctgaat 60
gacaaattac aaaatgctaa agaacagctt cgagaaaaag agtttataat gctacaaaat 120
gaacaggaga taagtcaact gaaaaaagaa attgaaagaa cacawcaaag gatgaaagaa 180
atggasagtg ttatgaaaga gcaagaacag tacattgccca ctcagtacaa ggaggccata 240
gattttggggc aagaattgag gctgacccgg gagcagggtgc agaactctca tacagaattg 300
gcagaggctc gtcatcagca agtccaagca cagagagaaa tagaaaggct ctctagttaa 360
ctggaggata tgaagcaact ctctaaagag aaagatgctc atggaaaacca tttagctgaa 420
gaactggggg cttctaaagg acgtgaagct tatttagaag caagaatgca agcagaaatc 480
aagaaattgn cacannaagt agnaatctct tcaaagaagc 520

```

<210> 1524

<211> 2791

950

<212> DNA

<213> Homo sapiens

<400> 1524

```

gtcacctgac acctcaccgg tccggaattc ccgggtcgac ccacgcgtcc gcccacgcgt 60
cçgtaatccg tggttttctg gagcatttca cagcctagga acatacaagg ggggcatctc 120
cctggaatgt aaattgacta agaggaattc aataatggtc aaatgaatgc agaatttttag 180
agtcttgctt agtattctca ccacatttcg tttartctac tcatactctt tttctcttac 240
tgctgacact agatggaaaa actcttaatt aaaagtattt cacaaaatgt gctcgttttc 300
agtcattccg tttccactcc agcctgttgt gttgtttttt tgaaataata atttaaagta 360
attttccttt tgcaggatgg catagtcaat ccaacaataa gaaaagattt gaaaactgga 420
ccgaaattct actgctgtcc aattgaaggc tgccccagag gccctgagag accgttttct 480
cagttttctc tcgtaaaaaca gcactttatg aaaatgcatg ctgagaagaa gcacaaatgt 540
agtaagtgca gcaattcgta cggtagacaa tgggacctga aaagacatgc agaggactgt 600
ggcaagacct tccggtgcac atgcggctgt ccctacgcca gtagaacagc actgcagtct 660
cacatctacc gaactgggca cgagatacct gcagaacaca gggacccacc tagtaagaaa 720
agggaaatgg aaaactgtgc acaaaaccag aagttatcca acaagaccat tgaatcattg 780
aacaaccaac caatccctag accagacact caagaactag aagcttcaga aataaaagcta 840
gaaccatctt ttgaagactc ttgtggctct aacactgaca agcagactct tacaacacca 900
ccgagatctc ctcagaagt tcttttacc aagcccaaag tggcttttgt taaactaccc 960
gtgatgcagt tttctgtcat gcctgtcttt gtgcctacag ccgactcctc agcccagcct 1020
gtggtgttag gtgttgatca gggctctgcc acaggggctg tgcaactaat gcccttgtca 1080
gtaggaaccc tgatcctcgg cctagattca gaggcttgct ctcttaagga gagcctacct 1140
cttttcaaaa ttgctaatac tattgctggt gagccaataa gtactgggtg tcaagtgaac 1200
tttggtaaaa gtccatctaa tcctttacaa gaactagggg acacgtgtca aaagawtagc 1260
atttcttcaa tcaacgtgca gacagatctg tcttatgcct cacaaaactt tataccttct 1320
gcacagtggg ccaactgctg ttctctgtgt tcgtcttgtt ctcaaaactga tttgtcgttt 1380
gattctcaag tgtctcttcc cattagtgtt cactctcaga catttttgcc cagctctaag 1440
gtaacttcat ctatagctgc tcagactgat gcatttatgg acacctgttt ccagtcaggt 1500
ggggtctcca gagaaactca aaccagtggg atagaaagt ccaacggatga ccatgtacag 1560
atggaccaag ctggaatgtg cggagacatt tttgagagtg ttcattcctc atataatgtt 1620
gctacaggta acattataag caacagttta gtagcagaga cagtaactca tagttttgta 1680
cctcagaatg agcctaagac tttaaatcaa gatattgaga aatctgcacc aattataaat 1740
ttcagtgcac agaatagtat gcttccttca cagaacatga cagataatca gacccaaacc 1800
atagatttat taagtgattt ggaaaacatc ttgtcaagta atctgcctgc ccagacattg 1860
gatcatcgta gtcttttgtc tgacacaaat cctggacctg acaccagct cccatctggc 1920
ccagcccaga accccggaat cgattttgat atcgaagagt tcttttcggc ctcaaatatc 1980
cagactcaaa ctgaagagag tgaacttagc accatgacca ccgagccagt cttggagtca 2040
ctggacatag agactcaaac ggacttctta ctgcagata cctctgctca gtcctatggg 2100
tgtaggggaa attctaactt cttaggcctt gagatgtttg acacacagac acagacagac 2160
ttaaactttt tcttagacag tagccctcat ctgcctctgg gaagtattct gaaacactcc 2220
agcttttccg tgagtactga ttcactctgc acagagaccc aaactgaagg agtctccact 2280
gctaaaaata tacctgctct agaaagcaaa gttcagttga acagtacaga aacacagacc 2340
atgagttctg ggtttgaaac cctggggagc ttgttcttca ccagcaacga aactcagaca 2400
gcaatggatg actttcttct ggctgatctg gcctggaaca cgatggagtc tcagttcagc 2460
tctgtagaaa ccagacttc tgcggaacca cacacagtct ccaacttcta aaactaacgg 2520
tggagtccat gtgtgaaatg gcatctacca tttcctctgg attaaaacta cggactgggg 2580
acaacagtat taattcgatt gaatgtggct gatgatgcag ttgcttagct tctttgtgtt 2640
tctttgcctt ttgtacttgt aaacagaaat ttgcgtataa atgtgagtgt attataaagt 2700
ttgagatgtt gatctaaatt gtttttgtgt tgcctacatt tgccttttca cagctagtct 2760
tttcatgtta aaaaaaaaaa aaaaaaaaaa a 2791

```

951

<210> 1525
<211> 687
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c

<400> 1525
gggtcgaccc acgcgtccgc ccacgcgtct gccaaatact tgctyaaact atttgacatt 60
ttctatcttt gtgttaacag tggacacagc aaggctttcc tacataagta taataatgtg 120
ggaatgattt ggttttaatt ataaactggg gtctaaatcc taaagcaaaa ttgaaactcc 180
argatgcaaa rtccagagtg gcatttttgc actytgtctc atgccttgat agctttccaa 240
aatgaaagtt acttgaggca gctcttgtgg gtgaaaagtt wtttgtacag tagagtaaga 300
ttattagggg tatgtctata cracaaaagg gggggtcttt cctaaaaaag aaaacatgat 360
gcttcatttc tacttaatgg aacttgtgtt ctgagggtca ttatggtatc gtaatrtaaa 420
gcttggtatga tgttcctgat tatctgagaa acagatatag aaaaattgtg ycggaacttaa 480
ataattttctg ttgaacatgc tgccataact tagattattc ttggttaaaa aataaaagtc 540
acttatttct aattcttaaa gtttataata tatattaata tagctaaaat tgtatgtaat 600
caataaaacc actcttatgt ttattaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaana 687

<210> 1526
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (594)
<223> n equals a,t,g, or c

<400> 1526
ttcaccataa tagttctaata taaaatgggc cttgctgtag gagagacaaa ggggcttttc 60
ctctagctgg taactattca gatgatggac aagtcttctt tcataaaaaga ttacaaagaa 120
ggcatccgaa tcaactgtctg tgatactggg tcacatatta atcactgcag ctaattgtaa 180
atcttyctat gaaacactga aaagcctctt tgtgaattaa tacagttctg cttgatgcac 240
ttgatttgaa aagacatttc tctgtatgtg gcgcatgtcg gctttgcttt gaaaaataac 300
aaagttagca gaatatgttc aatatatttt cttgggggaat aggggttttta ttacatgatt 360
cattaaggat ttgccttacc ctgacatttg tgatataaaag gaaaaatcaga aaaaaagtaa 420
ttttcttgat caagatatgt ttttacttaa tgcaaaataaa tgtagtctgt tgcttgcaag 480
gaaaaaaaaa tggcttctga tatctggtat aaactgctaa ataggataat acgtgcctct 540
tttgttaaac cggcatttaa atgctggact gcttctaaat ctgtttgttt cttntcatct 600
gtgccataca ctaaaaaaca actgttgccct tcatactata tttgttagag cagaatacaa 660
ataaaatttg agaggatwat gtgaaaatta taattaaaaa ggcggccg 708

<210> 1527
<211> 618

952

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 1527

```

ttcacacaat atgggggcagc atgcttttgt gacttttaaaa tagatcaagg aacttttgct 60
tttgaagaga gaaatttcct tggncctgggtg acaagagcag tagatgtgcc caagagtaag 120
gatgtgtgtt gtccttgggt tagccactgt aggtttataa cctggtagga aattttcata 180
ggaagggcca aaaattcaag atgctcattt gcaagttgtc ttctagggtg ttgcctgaac 240
ctaggctgca gtagaagtgg ggcttggagg taggcgatat tgaaatccca ggtaaatgct 300
aatctccatc tcagatccag gacaatgcag accagcttcc ttttgggaaa tggaggttct 360
tarttaatat gttctggctc ttacatttct gataccgcta ctggtgccaa cctaaatcag 420
cagcctagtt ctcagcagaa ggcagcagag gatggcaagg ttggagggta gatagaagct 480
gtgggagttg ggtggctcct gtctgcacac tggacaaggg gcaccctgag aaaaataatt 540
cttttaaaaaa ttaaaaaaaa aataagctgt gggagttgag ggtttaattg cttggccact 600
tggccttctc ctcgtgcc                                     618

```

<210> 1528

<211> 1103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1074)

<223> n equals a,t,g, or c

<400> 1528

```

cgcacgccaa acggggtttgg aggacctctc tcgccttcgg agagcagagt caacacggag 60
agttttggga ctggaattaa ataaagacag agatgttgaa agaatccacg gcggtggaat 120
taacaccctt gacattgaac ctgttgaaag gagatacatg ttatcagggtg gttcagatgg 180
tgtgattgta ctttatgacc ttgagaactc cagcagacaa tcttattaca catgtaaagc 240
agtgtgttcc attggcagag atcatcctga tgttcacaga tacagtgtgg agactgtaca 300
gtggtatcct catgacactg gcatgttcac atcaagctca tttgataaaa ctctgaaagt 360
atgggataca aatacattac aaactgcaga tgtatttaat tttgaggaaa cagtttatag 420
tcatcatatg tctccagtct ccaccaagca ctgtttggtg gcagttggta ctagaggacc 480
caaagtacaa ctttgtgact tgaagtctgg atcctgttct cacattctac agggtcacag 540
acaagaaata ttagcagttt cctggtctcc acgttatgac tatatcttgg caacagcaag 600
tgctgacagt agagtaaaat tatgggatgt gagaagagca tcaggatgtt tgattactct 660
tgatcaacat aatgggaaaa agtcacaagc tgttgaaatca gcaaactg ctcataatgg 720
gaaagttaat ggcttatgtt ttacaagtga tggacttcac ctctcactg ttggtacaga 780
taatcgaatg aggctctgga atagttccaa tggagaaaaac acacttgtga actatggaaa 840
agtttgtaat aacagtaaaa aaggattgaa attcactgtc tctgtgggt gcagttcaga 900
atttgttttt gtaccatatg gtagcaccat tgctgtttat acagtttact caggagaaca 960
gataactatg ctttaaggac attataaaac tgttgactgc tgtgtatttc agtcaaattt 1020
ccaggtaact tatagtggta gcagagactg caacattctg gcttgggttc catncttata 1080
tgaaccagtt cctgatgatg gtg                                     1103

```

953

<210> 1529
<211> 220
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<400> 1529
taaaaaaagn ggggttttaa cgggcccccc ttgggggccc aaaggagggt tttaaccccc 60
cggggggggkt tccccccggg ggggraaaaa attttttccc cccccccggg ggggggggttt 120
cccgggaaac ccccccccaa aaccggggcc cgggktttcc ccccgggggg ggggcctttc 180
ccaaaatttt tttttgccca aaacnnttcc caaaaaattt 220

<210> 1530
<211> 438
<212> DNA
<213> Homo sapiens

<400> 1530
gaggggcggc gggctagtaa ccatagcggc tcgcgtgggt cggctggcaa gtaaccatag 60
cggcgagcgt ggggcggagt gtggctcggg agtcctctgc gtgccctcct gggagctggg 120
tgctgtgagt cctcccctag cgggctgggc tcggcgcgga gtcggcgccg aacccgagct 180
gctgctctgg ggcgtgtgcc tagggcgagc ggctggagcg cggggctgcg cggttgctcg 240
cgstccgctg aggtctctag gaaagggggc gatttgaggg ttccgccgtg accgcttcca 300
rcggcgagaca cgcgcgctct ggaccagagc cgttgcccgc tgtctcgtca cccgaagcct 360
cctcctgacg ccgtgctagt gcgagggtct ccagggggaat tcgggggcaca agtcggggccg 420
gagcatccgg gcggccgc 438

<210> 1531
<211> 2062
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1022)
<223> n equals a,t,g, or c

<400> 1531
gcccacgcgt ccgcccgact cggagcccct cggcgggcgcc cggcccagga cccgcctagg 60
agcgcaggag cccagcgca gagaccccaa cgccgagacc cccgccccgg ccccgccgcg 120
cttcctcccg acgcaragca aaccgcccag agtagaarat ggattggggc acgctgcaga 180

954

```

cgatcctggg ggggtgtgaac aaacactcca ccagcattgg aaagatctgg ctcaccgtcc 240
tcttcatttt tcgcattatg atcctcgttg tggctgcaaa ggargtgtgg ggagatgarc 300
aggccgactt tgtctgcaac accctgcagc caggctgcaa gaacgtgtgc tacgatcact 360
acttccccat ctcccacatc cggctatggg ccctgcagct gatcttcgtg tccacgccag 420
cgctcctagt ggccatgcac gtggcctacc ggagacatga gaagaagagg aagttcatca 480
aggggggagat aaagagtga ttttaaggaca tcgaggagat caaaacccag aagggtccgca 540
tcgaaggctc cctgtgtgtg acctacacaa gcagcatctt cttccgggtc atcttcgaag 600
ccgccttcat gtacgtcttc tatgtcatgt acgacggctt ctccatgcag cggctgtgtga 660
agtgcacgc ctggccttgt cccaacactg tggactgctt tgtgtcccgg cccacggaga 720
agactgtctt cacagtgttc atgattgcag tgtctggaat ttgcatcttg ctgaatgtca 780
ctgaattgtg ttattttgcta attagatatt gttctgggaa gtcaaaaaag ccagtttaac 840
gcattgcccc gttgttagat taagaaatag acagcatgag agggatgagg caacccgtgc 900
tcagctgtca aggtcagtc gcyagcattt cccaacacaa agattctgac cttaaatgca 960
accatttgaa acccctgtag gcctcagggt aaactccaga tgccacaatg gagctctgct 1020
cncctaaagc ctcaaaaaca aggcctaatt ctatgcctgt cttaattttc tttcacttaa 1080
gttagttcca ctgagacccc aggtctgttag gggttatttg tgtaagggtac tttcatattt 1140
taaacagagg atatcggcac ttgtttcttt ctctgaggac aagagaaaaa agccagggtt 1200
cacagaggac acagagaagg tttgggtgtc ctctgggggt tctttttgcc aactttcccc 1260
acgttaaagg tgaacattgg ttctttcatt tgctttggaa gttttaatct ctaacagtgg 1320
acaaagttac cagtgcctta aactctgtta cacttttttg aagtgaaaac tttgtagtat 1380
gataggttat tttgatgtaa agatgttctg gataccatta tatgttcccc ctgtttcaga 1440
ggctcagatt gtaatatgta aatggtatgt cattcgctac tatgatttaa tttgaaatat 1500
ggtcttttgg ttatgaatac tttgcagcac agctgagagg ctgtctgttg tattcattgt 1560
ggtcatagca cctaacaaca ttgtagcctc aatcgagtga gacagactag aagttcctag 1620
tgatggctta tgatagcaaa tggcctcatg tcaaataatt agatgtaatt ttgtgtaaga 1680
aatacagact ggatgtacca ccaactacta cctgtaatga caggcctgtc caacacatct 1740
ccctttttcca tgactgtggt agccagcatc ggaaagaacg ctgattttaa gaggtcgtt 1800
gggaatttta ttgacacagt accatttaat ggggaggaca aaatggggca ggggaggagg 1860
aagtttctgt cgtaaaaaac agatttggaa agactggact cttaaattctg ttgattaaag 1920
atgagctttg tctacttcaa aagtttgttt gcttaccctc tcagcctcca attttttaag 1980
tgaaatatac tataacagtg aaagatagaa gcyaaaggta gataatatga gcrtctakag 2040
gaagrattga aacccccctt tg                                     2062

```

<210> 1532

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 1532

```

cccgcgcgag gcgaagtcgc tgagactctg cctgcttctc acccagctgc ctcgggcgtg 60
ccccggtcgc tcgccgcccc tccctttgcc cttcacggcg cccggccctc cttgggctgc 120

```

955

```

ggcttctgtg cgaggctggg cagccagccc ttcccccttct ntttctcccc gtccccctccc 180
cccgaccgta gcaccagagt cgcgggtcct gcagtgcccc agaagccgca cgtataactc 240
cctcggcggg taactcattc gactgtggag ttcttttaat tcttatgaaa gattttcaaat 300
cctctagaag ccaaaatggg acacagtaaa cagattcgna ttttacttct gaacgaaatg 360
gagaaaactgg aaaagaccct cttcagactt gaacaagggg atgagctaca gttccgatta 420
ggcccaactt tacagggaaa agcagttacc gtgtatacaa attaccatt tctggagaaa 480
catttaatag agaaaaattc cgttctcagg attgggaaaa tccaacagaa agagaagatg 540
attctgataa atactgtaaa cttaatctgc aacaatcggg ttcatttcag tattattycc 600
ttcaaggaaa tgagaaaagk ggtggagktt acatagtgtt gsmccccatt ttacgtgttg 660
ktgctgataa tcatgtgcta cccttggact gtgttactct wcagacattt ttagcwaagt 720
gtttgggacc ttttgatgaa tgggaaagca gacttagggg tgcaaaagaa tcaggctaca 780
acatgattca tttyaccca ttgcagactc ttggactatc taggtcatgc tactcccttg 840
ccaatcagtt agaattaaat cctgactttt caagacctaa tagaaagtat acctggaatg 900
wtgttggaca gctagtggaa aaattaaaaa aggaatggat tgttttttgt attactgatg 960
ttgtctacaa tcatactgct gctaatagta attgtatcca ggaacaccca gaatgtgcct 1020
atattcttgt gatttctcca cactaaaacc ctgcctgggt cttagacaga gcactttggc 1080
ttttctcctg tgatgttgca gaagggaaat acaaagaaaa gggaataacct gctttgattg 1140
aaaatgatca ccatatga                                     1158

```

<210> 1533

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 1533

```

gggtgttcac tattgtgaat ttataatctt aaaagttggg gatgctaaaa gtaccagact 60
aaaatamtac gaggttttct catcttttaa ttccattttg ttagaaaaaa atartcacia 120
ccgggggttct tttaccttcc cccagccatc tagactgctt tactgcaatg ttgggaagat 180
tgcatacaat aaaaactgta gctagtgtgat tgggattttg gaaaattgaa tcaagcattt 240
gcattcatcc agaatgggtc taaactgctg actgtggggg gccacagga tgagcactgg 300
tggcatgggt gggaggaatt tccttggata ctgcaattgc atttgaaaga tctattttcc 360
aaaacctgag cagagagagg ctaggaggaa tgcagacagg acattgaaaa tgccaattcc 420
ctttactagt agaacatgaa atatctgata aatggtttaa aaaaaataag tgccaggata 480
cattgtagta taaaggttca actagtataa tttaaaatga gtctttatat tcaggncag 540
gtgcgggtggc tcacacctgt taatnccag cacttt                                     576

```

<210> 1534

<211> 901

<212> DNA

<213> Homo sapiens

956

<400> 1534

```
gtgcgcgcgcg gtccctgcggc agctggccca agacccggag ccgaaaggaa gtgttgagc 60
ctgaggctgc tccggccgct aggaggacgc tgtgcctggc ctgggacctc cgctcccgcc 120
caccgccctg gagccgctga gggacgtcca cgtgggcctg tccccgccga gccgcggccc 180
tgtccgctgg cgtgctctc gggccactac ctctactacc actacggctg cgacggcctg 240
gacgaccgcg gctggggytg cggctaccgc actctgcaga cgtgtgtctc gtggccagag 300
ggccagcccg cgggcgtacc tggactggcc gccgtacagg cggccctgga ggacatgggc 360
gacaagcccc ccggcttccg gggctcccgg gactggatcg gctgcgtgga ggccagcctc 420
tgctctgctc acttcggagg gccccaggga cgctctgcc acgtaccccg gggagtgggg 480
ctgcacgggg agstggagag gctttactcg cacttcgcag ggggtggggg cccagtcag 540
gttggggggg acscagatgc caggccaag gccttgctgg gartctgctg cgggtcaggc 600
acggaagcct atgtcctggt attggaccct cactactggg gcactccaaa aagccccagt 660
gaactacagg ctgctgggtg ggtgggctgg caagagggtga gtgcagcctt tgaccccaac 720
tccttctaca acctgtgctt gaccagcctt agctcccaac agcagcagcg caccttggac 780
tgaggacgaa gttacagaac tgagattctc gggccccaga caccgacctt tgtacctccc 840
actggtgtcc ctgcaaagcc tggcgctttt gacatcaata ataaaagtgg cagggtgag 900
c 901
```

<210> 1535

<211> 1152

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1147)

<223> n equals a,t,g, or c

<400> 1535

```
caccncatt aagggancaa agctggtgct ccaccgcggt ggccggccgct ctagaactag 60
tggntcccc gggtgcagg aattcggcac gagctctttc aggctttaat agatattcaa 120
```

957

```

gaattttatg aagtgcctt actggataat ccaaaatgta tagatcggtc aaagccgtct 180
gaaccaattc aacctgtgaa tacttgggag atttccagcc ttccaagctc tactgtgact 240
tcagagacac tgccaagcag ccttagccct agtgtagaga aatacaggta tcaggatgaa 300
gatacacctc ctcaagagca tatttcccca caaatcacia atgaagtgat aggtccagaa 360
ttggttcatg tctcagagaa gaacttatca gagattgaga atgtccatgg atttgtttct 420
cattctcata ttccaccaat aaagccaaca gaagctgttc ttccctctcc tcccactgtc 480
cctgtgatcc ctgtcctgcc agtccctgct gagaatactg kcatcctacc caccatacca 540
caggcaaata ctcccsagt actggtcaac acagatagct tggaaacacc aacttacgtt 600
aatggcacag atgcagatta tgaatatgaa gaaatcacac ttgaaagggg aaattcaggg 660
cttggtttca gcattgcagg aggtacggac aaccacaca ttggagatga ctcaagtatt 720
ttcattacca aaattatcac agggggagca gccgcccaag atggaagatt gcgggtcaat 780
gactgtatat tacgagtaaa tgaagtagat gttcgtgatg taacacatag caaagcagtt 840
gaagcgttga aagaagcagg gtctaytgta cgcttgatg taaaaagaag gaaaccagtg 900
tcagaaaaaa taatggaaat aaagctcatt aaaggtccta aaggtcttgg gtttagmatt 960
gctggagggtg ttggaaatca gcatattsct ggggataata gcactatgt aaccrraata 1020
attgaaggag gtgcagcaca taaggatggc aaacttcaga ttggagataa acttttagca 1080
gtgaataacg tatgtttaga agaagttact catgaagaag cagtanctgc cttaaagagc 1140
acatctnatt tt 1152

```

<210> 1536

<211> 1532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<400> 1536

```

gaagaggacc tcgatactgt ccctccattg aatcaaaagt tttgcgtttt ccaaaccgtc 60
tacatcaggt ttggttggaa cctgaaggaa tggattctga ccttatctac ccacaggggt 120
tatctatgac gctaccagct gagttacaag agaaaaatgat cacatgcac agaggcttgg 180
agaaagctaa agtgattcag ccaggctacg gtgntcagta tgattactta natccccgtc 240
agatcacccc ttccctggan actcatttgg ttcaacgact cttcttttgc ggacagatca 300
atggcaccac tggttatgag gaagctgcag ctcaagggtg gatagccgga atcaacgcca 360
tcttcgggtc agtcgcaagc ctccctttgt ggttagccga acagaagggt acataggagt 420
cttgattgat gacctacta ctctgggcac caktgaacca taccgcatgt ttaccagccg 480
agtagagttc cgtttgtcac tgcgcctga taatgctgac agccggctca cactgcgagg 540
gtataaagac gctggctgtg tgtcccaaca acgatatgaa agagcttgtt ggatgaagtc 600
ttcttttagaa gaaggcattt ctgtgttgaa atctattgag tttttgagct ctaaattggaa 660

```

958

```

aaaattaatc ccagaggctt ctataagtac tagtagaagt ctgcctgtca gagctctcga 720
tgttctgaag tatgaggaag ttgacatgga ttcattagcc aaggctgttc cagagccctt 780
gaagaagtat actaaatgta gagagctggc tgaaagactg aaaatagaag ccacttatga 840
atcagtgttg ttccatcaac tacaagaaat aaagggagtt cagcaagatg aagctctcca 900
actgccaaaa gacctagatt atttgactat cagggatgtg tctttgtccc atgaagtctg 960
agagaaaacta catTTTTagtc gtccacagac gatcggggct gctagtcgca taccggagt 1020
aacacctgcc gccatcatca atctgctgag atttgtgaag accactcaac gaagacagtc 1080
ggctatgaat gaatcatcca agactgatca atacttatgt gatgcagaca gacttcaaga 1140
gagagagtta tagctttcaa ttcataaaaag attttttaaag agcatataaa taatttgatc 1200
aatacaacag tatagataaa agaattattt agcacatgtt aaaatagctt tattaggtta 1260
ctatgggttt gccattaatt tctgagtggg acagaaatta taattgtgct ttttcgtgta 1320
tatgaaaaaa ctagtcgtaa acaatttgta ctctttcttt aaggagctgt aatacaaata 1380
actttgtgca gtgttcatca aagagagaga cagtgaacct aaaactgaac ctggaataaa 1440
actcaacatg cagatttgcc tactcatagg gactttgcct attaagtcta ccaaattaaa 1500
agtcttatca ttcaaaaaaa aaaaaaaaaa aa 1532

```

<210> 1537

<211> 482

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 1537

```

cttgggtatc ggctattgcc tgagtgtgct agagtcctcg aagagtaact gctgacctta 60
ttcactggct gtgggcctta tggcacagtc agtcaccagg ttagagacat gcttcacatt 120
cacctacca caaactagtg gatgataaat tttggctatt cagaagacgt ttattatagg 180
agtatgtaga ttttccatag agtgctgtta tgtgacttga attttagtct cggccctgcc 240
tctgacattg tcggtgggtt atcctgggtc caggaaataa gactagcctt ttcctcatga 300
tagtctttgg tggtttttaa aacagttgtt taagtcaaca gatgtatcat atgcctgaca 360
ctgctctaca ccagtgaata atttacactc taataggggg tggttaactat aaagatgata 420
aacatagcat cttaattggn gtgtgtatga aggtggttgt tacctcttnc tagccaccca 480
gg 482

```

<210> 1538

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1538

```

gagaccggaa atatgaaagg ataagttcag gatgtattcg ttccaagtcc ctttctctgc 60
aaatgcgcca cagcaagtat tggaagggcc cccggcagc cagtccggcc atgtctccca 120
caaccctggt ggtcactgga gccacttccc tgcccacgcc agcaccctat gccatgcctg 180

```

959

```

agttccagcg ggtcaccatc agcggagatt actgtgccgg gatcactttg gaggactatg 240
agcaggcagc caagagtctg ccaaggccct aatgatccgg gagaagtatg cgggctcgcc 300
taccacacct cccgcggatc acatcccagt acctgggtca tcgcgggcgg atactgcacc 360
tccggaagag ggccttccag acttccaccc tcctccactg ccccaggaag acccctactg 420
cctggatgat gcacccccca acctggatta cttggtccac atgcaggggg gcacccctct 480
tgtgtatgat aacaagaaga tgctggagca ccaggagccg cacagcctac cctaccccca 540
cctggagacc tacacggtgg acatgagcca catcctggct ctcacaccg atggccccac 600
gaaaacctat tgtcaccggc gactgaactt tctggaatcc aagttcagcc ttcattgagat 660
gttaaaccgaa atgtccgagt tcaaagagtt gaagagtaac cccaccggg acttctataa 720
cgt 723

```

<210> 1539

<211> 937

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<400> 1539

```

taataatgtg tagagctaaa ggaagcagtg gagacaacct gaagtagaag tgtttcacag 60
agaatgctaa tttctggagc ctgagccact actttttttt tttttaaca gatagaacag 120
acttagcttt ctgaagagct ttaaaaactc ttgatgcctg tgccctgttac tacagaatgc 180
tctgctgtct gccttttagag tgtagaaatc ctagtttagac tagtattctg gctacttctg 240
tagtctaaac atttacttct tgaggggctt ggggcattta ttcagagcca aggctctggt 300
tcattaagga taagaggaat ggaataatta aagacatcgg tcatcaacta attcccatc 360
ctcctttcct tgctccttgt ttcctcagct gtaaaatcac aatgattctg atacccact 420
ttataatatt gctctgagga tttaaatttg taatcaacat aaagcactga tcacattgcc 480
cagtgcatag taagcgctct aaatatctgc tatttttatc atgtagtggt gggtgaaatt 540
ggttttgngt tctccactct tagtttaaaa aatagtatga gtcgaatgtt tcatattgcc 600
ctgtctcagg ggaaaaaaaa aattgctttt tgcatagctc tcagttgatt cccactcact 660
atgatggcta tatagaacac aagttctcta ccatctctgc agtattttaa aaattccttt 720
aaaaaaaaaa atatttattg tgggacaaaa tattatatgc ttacttagaa tattgggaag 780
atggtaaaaga atacaaagaa aaaaacaatt gtacccctca ttctagacac aacttgctgt 840
tcacgtcttt ggggtgtatt tccattccta ctagatggaa ccatttatat gtttacctaa 900
ttcggatcat gttgcataca gttttgttcc cttcaaaa 937

```

<210> 1540

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

960

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<400> 1540

```

ggccgtggcc accaagcccc ggccgcagttt ctctccgccc acggcaggag cgaaggaagg 60
ccctggngcg agcgggtaaa ctgcccaccg ggccggccac ccgctgcgcc cccggccccg 120
aagaggcagt cccaataggt tggcccgncg ggccgaagtc cgcccgagc ccgctcacct 180
gtcagcccc actgccgaca gggacactaa caggtgaaga tctcgggaga ccatgactaa 240
gaaaagaatt gctgtgattg ggggaggagt gagcggtct cttncatcaa gtgctgcgta 300
gaagaaggct tgggaacctg tctgctttga aaggactgat gacatcggaa gggctctgga 360
ggttccaggg a 371

```

<210> 1541

<211> 906

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 1541

```

accaacctca ctaaagggac aaaagctgga gctccaccgc ggtggcggcc gctctagaac 60
tagtggtacc cccgggctgc aggcggagtg gggccctgca gcttccccgg gaggaaggag 120
acaggctgca ggatgtcttg cagtggatgc tggagagtga gcggcagagc aagcccaagc 180
cccatagtgc ccaaagcaca aaaaaggcct accccttgga gtctgcccgc tcgtctccag 240
gngaacgagc cagccggcac catctgtggg ggggcaacag cgggcacccc cgcaccaccc 300
cccgctgccc cctgttcacc caggaccctg cgatgcctcc cctgacccca cccaacangc 360
tggnttcagc tggaggaggm ctgtcgcagg ctagtctagg tgtcgaagcc ccaaagcag 420
cgggtgctgtg tggccagtca gcagagggac aggaatcatt cggccactgt tcagacggga 480
gccacamect tctccaatcc aagcctggct ccagaagatc acaaagagcc aaagaaactg 540
gcagggtgtcc acgcgctcca ggccagttag ttggttgtca cttacttttt ctgtggggaa 600
gaaattccat accggaggat gctgaaggct cagagcttga cctggggcca ctttaaagag 660
cagctcagca aaaagggaaa ttataggtat tacttcaaaa aagcaagcga tgagtttgcc 720
tgtggagcgg tgtttgagga gatctgggag gatgagacgg tgctcccgat gtatgaaggc 780

```

961

cggattcttgg gcaaagtgga gcggatcgat tgagccctgg ggtctggctt tggatgaactg 840
ttggagcccg aagctcttgt gaactgtctt ggctgtgagc aactgcgaca aaacattttg 900
aaggaa 906

<210> 1542

<211> 979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (735)

<223> n equals a,t,g, or c

<400> 1542

aatgaacaag ctgaatgagc tagagaaaat atgtgaaata ctgcaggctg aaaagtatga 60
nctcgtaact gagctgaatg attcaaggtc agaatgtatc acagcaacta ggaaaatggc 120
agaagaggta gggaaactac taaatgaagt taaaatatta aatgatgaca gtggtcttct 180
ccatggtgag ttagtggaag acataccagg aggtgaattt ggtgaacaac caaatgaaca 240
gcacctgtg tcttttgctc cattggacga gagtaattcc tacgagcact tgacattgtc 300
agacaaagaa gttcaaatgc actttgccga attgcaagwg aaattctmmt ctttacaaaag 360
tgaacacaaa attttacatg atcagcactg tcagatgagc tctaaaatgt cagagctgca 420
gacctatgtt gactcattaa aggccgaaaa tttggtcttg tcaacgaatc tgagaaaactt 480
tcaagggtgac ttggtgaagg agatgcagct gggcttggag gaggggctcg ttccatccct 540
gtcatcctct tgtgtgcctg acagctctag tcttagcagt ttgggagact cctcctttta 600
cagagctctt ttagaacaga caggagatat gtctcttttg agtaatttag aaggggctgt 660
ttcagcaaac cagtgcagtg tagatgaagt attttgcagc agtctgcagg aggagaatct 720
gaccaggaaa gaaanccctt cggccccagc gaagggtgtt gaagagcttg agtccctctg 780
tgagggtgtac cggcagtccc tcgagaagct agaagagaaa atggaaaagtc aagggattat 840
gaaaaataag gaaattcaag agctcgagca gttattaagt tctgaaggca agagcttgac 900
tgccttagga gcagtatttg tcagacatga cagtggcaca gagctgacag cgtgactctg 960
agatgagtcc agttggcgc 979

<210> 1543

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

962

<223> n equals a,t,g, or c

<400> 1543

```

gccccactgg gaaaagaagt gtatccgtct tgctcttmaa accagggagc aacacattcg 60
gagagacaag gctaccagca acatctgtac agctcaggcc ctcttggega atatggctgc 120
catgtttgca atctaccatg gttcccatgg gctggrgcat attgcctagg aggggtacata 180
atgccacttt gattttgtca gaaggtctca agcgagcagg gcatcaactc cagcatgacc 240
tgttctttga taccttgaag attcagtgtg gctgctcagt gaaggaggtc ttgggncang 300
c 301

```

<210> 1544

<211> 652

<212> DNA

<213> Homo sapiens

<400> 1544

```

ccaaataaat ttgactgatg ccaaaactga agctgccaat gtaatgaaat gttaagggtgg 60
ccataggaca gtccttttaa taaaagcttc catgtaaaac caaaataaag gtcagtatag 120
aaagtatcat ggggtatata acaaactgaa tttttggctt ccaatccaaa ctgggctaaa 180
tggtatgttt attttaaaca aggaatttgc catggacaag atctatctgg cttactgtga 240
gttagaagta cgccctgccg taacactggg atttccacat agtatggaag aggaagagag 300
gaaaacttaa ttaagtgttg caaaattgtt tgaggacctt ttttgggtcca ttccttatca 360
actccatgtg tgatttcaag ttatctaaag ggcatgtgac tttatttctg actaacatca 420
agttcctctc ctcatcataa caaggcgatt caaacctaaa ctgtgattct taggagatgc 480
ttccaagggg aagctccctc gttggacatc cagaagattg cattttctct tcagagtaca 540
attttccatc tgtcagagca tgtctgaata aaaatttgaa cctactacaa actacattag 600
aataattttc aagtattttt ctgtcacaaa aatggtgtga cagaatgtgt tg 652

```

<210> 1545

<211> 2236

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2223)

<223> n equals a,t,g, or c

<400> 1545

```

gctctaagtc acggggaactg cccttgctac ttgtgacctg ccctttactc agcagttttt 60
gttctgggaa gccctgggat tctgctaata cctatcactg taggtgctga agggaaacag 120
atgaagaaca tgacctcaag gagcttcctg tcaatgagaa gaccaagctg acgcctggca 180
aagatattaa agaggagcct gaaactgttc cttggacatc ttatgaatgt cagaaaaatac 240
cttttggagg gttagaagat caggggacat ggttgtttcac atttgctgcc acggaaacacc 300
gccagtcttc acttggaac agaatcacgc cttgtgaaga gatcatccct aagcaggaga 360
gaagctacta aaggattgtg tcctcctcca ccttccctgt gctcgggtctc cacctgtctc 420

```

963

```

ccattctgtg acgatgggtc aatggaagag actctgccag ctgcattact tgtgggctct 480
gggctgctat atgctgctgg ccactgtggc tctgaaactt tctttcaggt tgaagtgtga 540
ctctgaccac ttgggtctgg agtccaggga atctcaaagc cagtactgta ggaatatctt 600
gtataatttc ctgaaacttc cagcaaagag gtctatcaac tgttcagggg tcacccgagg 660
ggaccaagag gcagtgttc aggtattct gaataacctg gaggtcaaga agaagcgaga 720
gcctttcaca gacacccact acctctccct caccagagac tgtgagcact tcaaggctga 780
aaggaagttc atacagttcc cactgagcaa agaagagggt gagttcccta ttgcatactc 840
tatggtgatt catgagaaga ttgaaaactt tgaaaggcta ctgcgagctg tgtatgcccc 900
tcagaacata tactgtgtcc atgtggatga gaagtcccca gaaactttca aagaggcggt 960
caaagcaatt atttcttgtc tcccaaagt gtctcatagcc agtaagctgg ttcgggtggt 1020
ttatgcctcc tgggtccaggg tgcaagctga cctcaactgc atggaagact tgctccagag 1080
ctcagtgcgg tggaaatact tcctgaatac atgtgggacg gactttccta taaagagcaa 1140
tgcagagatg gtccaggctc tcaagatgtt gaatgggagg aatagcatgg agtcagaggt 1200
acctcctaag cacaaagaaa ccgctggaa atatcacttt gaggtagtga gagacacatt 1260
acacctaacc aacaagaaga aggatcctcc cccttataat ttaactatgt ttacagggaa 1320
tgcgtacatt gtggcttccc gagatttcgt ccaacatgtt ttgaagaacc ctaaatecca 1380
acaactgatt gaatgggtaa aagacactta tagccagat gaacacctct gggccacctt 1440
tcagcgtgca cgggtggatgc ctggtctctgt tcccaaccac cccaagtacg acatctcaga 1500
catgacttct attgccaggc tgggtcaagtg gcagggtcat gagggagaca tcgataaggg 1560
tgctccttat gctccctgct ctggaatcca ccagcgggct atctgcgttt atggggctgg 1620
ggacttgaat tggatgcttc aaaaccatca cctgttggcc aacaagtttg acccaaagg 1680
agatgataat gctcttcagt gcttagaaga atacctacgt tataaggcca tctatgggac 1740
tgaactttga gacacactat gagagcgttg ctacctgtgg ggcaagagca tgtacaaaca 1800
tgctcagaac ttgctgggac agtgtgggtg ggagaccagg gctttgcaat tcgtggcatc 1860
ctttaggata agagggtgct tattagattg tgggtaagta gatcttttgc cttgcaaatt 1920
gctgcctggg tgaatgctgc ttgttctctc acccctaacc ctagtagttc ctccactaac 1980
tttctcacta agtgagaatg agaactgctg tgatagggag agtgaaggag ggatatgtgg 2040
tagagcactt gatttcagtt gaatgcctgc tggtagcttt tccattctgt ggagctgccg 2100
ttcctaataa ttccagggtt ggtagcgtgg aggagaactt tgatggaaaag agaaccttcc 2160
cttctgtact gttaacttaa aaataaatag ctctgtattc aaagtaaaaa aaaaanaaaaa 2220
aanaaaaaaa actcga 2236

```

<210> 1546

<211> 356

<212> DNA

<213> Homo sapiens

<400> 1546

```

ggataatcct ctctccctgt tccctcatt tggctgctcc agaccctgag aaacttctac 60
ctgtcccatg ccagctgagg gtgtctgagg agctgacatc aaccccatgg atctcctgaa 120
ctgtgctgga aggtagagac aggcaggagg gcttcccatg ggtcasgaga acctgacccc 180
acaaatcaac tgatcttcaa gagacaggat ggagggaggg atcattctag agaacctgct 240
tccttggtcc tccctgtggc aaaatctggc gccaggaaga gtttgagtgt gtaggcgtgt 300
gtgtgcagggt gtaagtgtgc aggcacgtgt gtgcagggtg gtatgtacag ccgtgt 356

```

<210> 1547

<211> 1172

<212> DNA

<213> Homo sapiens

<220>

964

<221> misc feature
 <222> (778)
 <223> n equals a,t,g, or c

<400> 1547

```

gggattacag gcgtagaccac cgtgcccggc ctgattctct taaaattgaa gaggtgctgc 60
caaggccttc agatctaacg cagatgcata gaccttggtc ctggtacttg ttcagcctgt 120
gctggggagc cgtggtcccg agttccctgg gaggtgaca ggggtcaagcc accctgccca 180
ccacctccc acttcccctc ccctttcctc tccagcatta ggattcaagg gaaatctgca 240
tgaagccaat tttgagggta gacgtgtggg gaaaataaat cattatacag taagacctgg 300
ggcttgaggg gtgggggaatg gggaggggaag ggcatagcct gtcctccat gagtctgaca 360
tctcggaac tgagcagctg ccggacgcct gggtcaggaa tccaagaccc cacctcttaa 420
ggactgggtc ctcagaaagc accctcaggg aaaaagggtga aaacattaca tccgtggatt 480
ctcctgccac aaccgcattg gaagaaaagg ctgccgcaac atctcagcga ggagtgaagg 540
acccatgtcc caggaaccgc gctgcgccac ctgcactcac cccctcaca ttctcttaag 600
caccgggtgg ccctccgagg cctggcggaa tgggtggtgcc cacgggggttg ggcaagggct 660
caccaggacc tcaacgggca aagttgtgca cactaaaata tcaaatcaag gtgcttggtt 720
ttaaagtaaa tgtttttctt aagaaaagctg tgttcttctg ttgaccaga cgaatagngc 780
acagccctgt aactgcacgt gccttctgtc attgggaatg aaataaatta ttacgagaaa 840
gggacttgct ctaactgggt tgaggcctta cagttttgka tctacatttt tccccctctg 900
gggtttgcgg ggacagggac agaactacag gagtcatggg aaagaaaatt ctggcttcac 960
tactgtcac tgctacttt ctgatcactc tgatactttt tttttttttt ttttgcaacc 1020
tgataccttg aaaagcttct atgtgtctct ccttttggtg cctggcagct gtctaggatg 1080
atcactgatt actatttact aagtagccac atgcaataaa aagttgtttg gtaaaatgga 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1172

```

<210> 1548

<211> 1423

<212> DNA

<213> Homo sapiens

<400> 1548

```

tgcttttct gtgagctatt tgttttggtt tgctgaaact agtccaaaac aggaaattta 60
acagacagcc acagccaaaag agtgtcatgt gaattacaag aaatagagcc catttaggga 120
aagatagaac tagaaaggct tttcattata attccatgtt gaacaattga gtcatagctt 180
cttatctygg gaggaaggac acaattcaaa ggggcagtaa ggattttgta aaacgtggca 240
tccataatth actatggagc aagtgcacc atctctagga cattaagaca tttatgagaa 300
atctcaggat tcattctctg tttttatggt aaatgcactc cctccttttc agttaacatt 360
ataaaaagta aaaaatgaaa attttagaaa tcttgcatga gacacatgaa aaaataacta 420
aaagtttaaa tttaaatatg aaacaatttt gctgaaaata gtatccatat actattttaag 480
tcttttatgg ttatttcaag tatacaatth ctatctgtaa tgtaatatat taccacaca 540
tttttttcac aggagagaga gaatatcctc atttgtttat gctcatgtgt attttctata 600
gtgaatttca gaaactttta atatcaggta atttcaattt atgcctataa agcattgatt 660
gaaaaataac tagaattgtg catatataac acataatctc caacagaagt tactgaatac 720
attcatacta atgtaatgta atttccctth atttcttgct cttctgtttc aaactgctgc 780
tattgtagtt tacatatccc aacctttaa aatattcctc ttattagctt tatattcact 840
ttatagaagt tgagttttta ttaaaattct tggcatcctg aagtatgtca catagcatgt 900
gtcctttata aatatgttga tatctcagaa gacagcatcc cggttttcat tttataaagt 960
accatactta agaatgctgt aatacttatt ttttataaca tgtttccttc gctttgcttg 1020
tcttttatgt catcagttth aactgtttac ttcatttaac agtttacatc attcaacagt 1080
ttacttcatt aaacagtagg tggaaaaata gatgccagtc tatgaaaatc ttcccatcta 1140

```

965

```
tatcaaaaata cttttcaagg atatactttt caaaacaaac gatttaaatt ttatgkttaa 1200
aatataaaact ttagatttaa actttattta aatatctggt tcctatgatt ttgacttcag 1260
taagktcaaaa taaaatatat tttgcaattc atttttacat tataatttaa aaagaagaag 1320
cgataagtgg agtcagtttc aatgctaggt ggggtggtta atgatttttc tgggtgttgct 1380
gctaattgtgg attaacaaat aaaaacattc attgcctttt aaa 1423
```

<210> 1549

<211> 457

<212> DNA

<213> Homo sapiens

<400> 1549

```
ggttctggag ctggaccagg aggagctgca gctgggccgg ggcgaggcgc cgcgccgcgc 60
cagggccgcg aggaggggag tggtgctgct ggcccaccgc gagccgcccc cagcccgcgc 120
cgaggcgcct tcccgccagg ccgcctgcct tccgcctctt tccatttccc cggaatctca 180
gcccggcgcg cctggacccc tgcccctctc tgggtggaga agctcccggc cgcttccggt 240
ttcactcctt ctcagcctgg gctcccagcc ccctctctcc ttttcctgga ctggctctca 300
cccccttcgg tccccttcct ttagctcagg ctccctaccc cttccttttag ccacacaagcc 360
cagaagtccc aagcttctca gtcactttcc tyagccaaag gtcccagcct tccttcttcc 420
tttcttttgc actatcccta tcctgccctt tctctat 457
```

<210> 1550

<211> 977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 1550

```
acccacgcgt ccgaaacact agcagcaaaa agtaagggat accaattgtg agaaacaaat 60
cacaactgca catcaaagt ttgctgacat tggatctgtg ctgtcttcca gttgtgccat 120
cctattttac tccttaagaa atgaggaaat tcctatttgg gggcatcaac tctccctcga 180
gaaaaacaaa gctgctaagt aagattccac ctagaaaang gggaaagctn tttccnggga 240
```

966

```

acaccattta tccccccaca caaaataata gcatgagctg tgttttagag gagatagggg 300
gccaacccaa attcactcct ctcagatgat agtaaagatc aaaagnattc gaagggaggt 360
ggtaaacgct ggtgtggtac atgtggcttt setcactcat gtggatagca tggattttga 420
ttacaaaagg tgacctatag aaatagagag atgtgagcct gtgagggtcca agctagagga 480
agtccaaaga aaacttggat ttgctctttc tgacatctcg gtgggttagca attattcctc 540
tgagtgggag ctggaccctg taaaggatgt tctaattctt tctgctctga gacgaatgct 600
atgggctgca gatgactttc tagaggatgt gccttttgag caaataggga atctaaggga 660
ggaaattatc aactgtgcac aaggaaaaaa atagatatgt gaaagggttca cgtaaatttc 720
ctcacatcac agaagattaa aattcagaaa ggagaaaaca cagaccaaag agaagtatct 780
aagaccaaag ggatgtgttt tattaatgtc taggatgaag aaatgcatag aacattgtag 840
tacttgtaaa taactagaaa taacatgatt tagtcataat tgtgaaaaat aataataatt 900
tttcttggtt ttatgttctg tatctgtgaa aaaataaatt tcttataaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaa                                     977

```

<210> 1551

<211> 2540

<212> DNA

<213> Homo sapiens

<400> 1551

```

tgcaactgtg caccagctt gccagatttt tccccattac acccccagtg tggcatatcc 60
ttggtcccca gaggcacacc ccttgatctg tggacctcca ggccctggaca agaggctgct 120
accagaaacc ccaggccctt gttactcaaa ttcacagcca gtgtgggttg gcctgaytcc 180
tcgccagccc ctggaaccac atccacctgg ggaggggccc tctgaatgga gttctgacac 240
cgcagagggc aggccatgcc cttatccgca ctgccaggtc tgtcggccca gcctggctca 300
gaggaggaac tcgaggagct gtgtgaacag gctgtgtgag atgttcaggc ctagctccaa 360
ccaagagtgt gctccagatg tgtttggggc ctacctggca cagagtcctg ctccctgggaa 420
aggaaaaggac cacagcaaac accattcttt ttgccgtact tcctagaagc actggaagag 480
gactggtgat ggtggagggg gagaggggtg cgtttctctg tccagctcca gaccttgtct 540
gcagaaaaca tctgcagtgc agcaaatcca tgtccagcca ggcaaccagc tgctgcctgt 600
ggcgtgtgtg ggctggatcc cttgaaggct gagtttttga gggcagaaaag ctagctatgg 660
gtagccagggt gttacaaaagg tgctgtcctt tctccaaacc ctacttgggt tccctcacc 720
caagcctcat gttcatacca gccagtgggt tcagcagaaac gcatgacacc ttatcacctc 780
cctccttggg tgagctctga acaccagctt tggccctccc acagtaaggc tgctacatca 840
ggggcaaccc tggctctatc attttccttt tttgcaaaaa ggaccagtag catagggtgag 900
cctgagcac taaaaggagg ggtccctgaa gctttccccc tatagtgtgg agttctgtcc 960
ctgagggtggg tacagcagcc ttggttcttc tgggggttga gaataagaat agtggggagg 1020
gaaaaactcc tccttgaaga tttcctgtct cagagtccca gagaggtaga aaggagggaat 1080
ttctgtgga cttcatctgg gcagaggaag gatggaatga aggtagaaaa ggcagaatta 1140
cagctgagcg gggacaacaa agagtctctc tctgggaaaa gttttgtctt agagcaagga 1200
tggaaaatgg ggacaacaaa ggaaaagcaa agtgtgaccc ttgggttttg acagcccaga 1260
ggcccagctc cccagtataa gccatacagg ccagggaccc acaggagagt ggattagagc 1320
acaagtctgg cctcactgag tggacaagag ctgatggggc tcatcagggt gacattcacc 1380
ccagggcagc ctgaccactc ttggcccttc aggcattatc ccatttggaa tgtgaatgtg 1440
gtggcaaatg gggcagaggc cccacctgg gaaccttttt cctcagttg gtggggagac 1500
tagcacctag gtacccacat gggatattat atctgaacca gacagacgct tgaatcaggc 1560
actatgttaa gaaatatatt tatttgctaa tatattttat cacaaatgtg gtctgggtctt 1620
gtggttttgt tctgtcgtga ctgtcactca gggtaacaac gtcactctct tctacatcaa 1680
gagaagtaaa ttatttatgt tatcagaggc taggctccga ttcattgaaag gatagggtag 1740
agtagagggc ttggcaataa gaactggttt gtaagccctt aaaagtgtgg cttagtgaga 1800
tcagggaagg agaaagcatg actggattct tactgtgctt cagtcattat tattatactg 1860

```

967

```

ttcacttcac acattatcat acttcagtga ctcagacctt gggcaaatac tctgtgcctc 1920
gctttttcag tccataaaat gggcctactt aatagttggt gcaggactta catgagataa 1980
tagagtgtag aaaatatggt ccaaagtgga aagttttatt cagtgataga aaacatccaa 2040
acctgtcaca gagcccatct gaacacagca tgggaccgcc aacaagaaga aagcccgccc 2100
ggaagcagct caatcaggag gctgggctgg aatgacagcg cagcggggcc tgaaactatt 2160
tatatcccaa agctcctctc agataaacac aaatgactgc gttctgcctg cactcgggct 2220
attgcgagga cagagagctg gtgctccatt ggcgtgaagt ctccagggcc agaaggggccc 2280
tttgtcgctt cctcacaagg cacaagttcc ccttctgctt ccccgagaaa ggtttggttag 2340
gggtggtggt ttagtgccct tagaacaagg catttcgctt cctagacggt gaaatgaaag 2400
ggaaaaaaag gacacctaat ctcctacaaa tgggtcttag taaaggaacc gtgtctaagc 2460
gctaagaatg cgcaaagtat aaattatcag ccggaacgag caaacagacg gagtttttaa 2520
agataaatac gcattttttt 2540

```

<210> 1552

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (605)

<223> n equals a,t,g, or c

<400> 1552

```

tcttacatta tggctcccga ggggaagcna ttactttttt aaatttttaa tttttttttt 60
aattgcactt cttgtaaaga gtgagaaaaa aaatcaaagg cgctttgaaa caggggctct 120
ctgtgcaagg atgactaagt gtacgtcttt ccgtgtgtgt atgctgggtga acagtcagat 180
ttatttataat ttttttgcaa gcattgaata atctaagttt taaatattat ttatcccat 240
ccgttcgtat ttatattaaa gaattctgta ccctgatggg tcagaagggt tcttgggcct 300
tttgttcmat tgtgtattgg cgtacttaga atttttttta tttgaaagag aaatataatt 360
cctttaaacg gtaacgatgc aataaaacca gagaagatcc agcttttgaa aacagtgatt 420
taggtttgta acatccggca aaactgaaaa aaaaaatctg taaacgcgaa aaatactaga 480
tttgttttga gagttcttca ttcttgctg ctcacattct gagaaacaaa aagaaataaa 540
gtttttattc tgaataatat ccgtnttaan aaggggttct ttggccgaag acgtgggtct 600
gcgtngaa 608

```


968

<210> 1553
 <211> 784
 <212> DNA
 <213> Homo sapiens

<400> 1553
 tggccgaggt gttgceggacc tggccgtctc acaggteectt ccccagggtcc aagaggctct 60
 tctgtgtcct gatgacaagt agctgcctag ccgtgggtggc acctcctatc acatgttaag 120
 ggacccctcc ccagggccac acctggcaga aggtggctta tgatgttcgc agcttgaaag 180
 tagtgtaaac caaagataaa attctaagcc cactccccc gccatcggaa tggacccctc 240
 ctcttggcca gggcactcca aagttaacct gaaaaaccgg ttcaggctgt gaagagaagg 300
 tggagtggac atgcctcatt tatgtcctcc tcccttttgg aattcagcaa agctgaccag 360
 catgaacatt aacacagacc ttaagtctga ttagtggcat ttacaatcta tactctctga 420
 agcgtgctac ctggagtctt cctttgcatg ataaaacttt ggtctccaca accccttattc 480
 ataacctaga cactcctttc tagtgataat aactctttca accaattgcc aataaaaaaa 540
 ttttgaatct acctataacc tggaaacctcc ccgctccacc ttcgagttgt cctacctttc 600
 tggacagaag caatgtggat cttgcatgta tttgattgat gtctcatgtc tccctaaaat 660
 gtatacaatt aggcgtgtgcc cagatcacc cgggcacatg ttctcaggcc ctcttgaggt 720
 ctctgtctcg ggccattggc cactcagatt cggctcagaa taaatctctt caaatattaa 780
 aaaa 784

<210> 1554
 <211> 1931
 <212> DNA
 <213> Homo sapiens

<400> 1554
 ggcctctggc tgctctgtta acgtgtcccg cgagcgaggc gcgtcgcaaa aggtcgcggc 60
 ggaacttccc tgcgcttttc agaccatact ctttacggta ctaggcactg ctgagctggg 120
 agatgtcggc ggcgtgttgg gaggaaccgt ggggtcttcc cggcggcttt gcgaagsggg 180
 tcctggtgac cggcgggtgt ggtttcattg catcacatat gattgtctct ttagtggaag 240
 attatccaaa ctatatgatc ataaatctag acaagctgga ttactgtgca agcttgaaaga 300
 atcttgaaac catttctaac aaacagaact acaaatattat acaggggtgac atatgtgatt 360
 ctcaactttgt gaaactgctt tttgaaacag agaaaataga tatagtacta cattttgccg 420
 cacaaacaca tgtagatctt tcattcgtac gtgcctttga gtttacctat gttaatgttt 480
 atggcactca cgttttggta agtgctgtct atgaagccag agtggagaag tttatttatg 540
 tcagcacaga tgaagtatat ggtggcagtc ttgataagga atttgatgaa tcttcaccca 600
 aacaacctac aaatccttat gcatcatcta aagcagctgc tgaatgtttt gtacagtctt 660
 actgggaaca atataagttt ccagttgtca tcacaagaag cagtaatgtt tatggaccac 720
 atcaatatcc agaaaagggtt attccaaaat ttatatcttt gctacagcac aacaggaaat 780
 gttgcattca tgggtcaggg cttcaaacaa gaaacttcct ttatgtact gatgtttag 840
 aagcatttct cactgtcctc aaaaaaggga aaccagggtga aatttataac atcggaacca 900
 attttgaaat gtcagttgtc cagcttgcca aagaactaat acaactgatc aaagagacca 960
 attcagagtc tgaaatggaa aattgggttg attatgttaa tgatagaccc accaatgaca 1020
 tgagataccc aatgaagtca gaaaaaatac atggcttagg atggagacct aaagtgcctt 1080
 ggaaagaagg aataaagaaa acaattgaat ggtacagaga gaattttcac aactggaaga 1140
 atgtggaaaa ggcattagaa ccctttccgg tataatcacc atttatatag tcgagacagt 1200
 tgtcaaagaa gaaagttatc ctacctcgcc aagtggatat aaattaagtg accaaatgaa 1260
 gtgcactctt ttcttttgga attagattca tgactttctg tataaaattc aaatgcagaa 1320
 tgcctcaatc tttgggagag tttcagtact ggcatagaat ttaaagtca aaattctttc 1380
 tgaaaccctt tctcctagaa actaggaaat aatagggtga gaagactctc cctaagggtta 1440

969

```

gccaggaaga agtctcctga ttcggacaac catgaggggt agtgggtgcta gggagaaggc 1500
aaccttcact ggttttgaac tcagtgccta agaaagtctc tgaaatgttc gtttttaggc 1560
aatataggat gtcttaggcc ctaattcacc atttcttttt taagatctga tatgctatca 1620
ttgccttaat aatggaacaa aatagaagca tatctaacac tttttaaatt gataattttg 1680
taaaaattgat tacgttgaat gctttttaag agaagtgtgt aaagttttta tattttcaca 1740
attaacgtat gtaaaacctt gtatcagaaa tttatcatgt ttactgttta aaatgattgt 1800
atttataaaa ttgtcaatat cttaatgtat ttaatgtaga atattgcttt ttaaaataat 1860
gtttttatatt tgctgtagaa aaataaaaaa aaatttgatt ataaaaaaaa aaaaaaaaaa 1920
aaaaaaaaaa a 1931

```

<210> 1555

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1555

```

agcatttctt ctgagttgtg cttgctgaac tcaaatacta ggtgatttgg taatgcgcct 60
aaagagcatg gggctcctcc tgccaattat aagcaaagac atcacatttg gagtttggca 120
agatcagaat atctcagggt gagcacctgc tgaatgctag gatttgtgtct atgcatttta 180
aatctatttt taatctttat tacagtctta taatagggat tatgacacca gaacagagac 240
agctgtctta agattwcaag ggggtgctagc tgaagaaaac agagaggaaa gttgggaaga 300
agctggatcc ttgataacag ctgagccatg gacttaacca gtcttagatg agcgatacct 360
caccttcaga tttcatgtca taccacctga aata 394

```

<210> 1556

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<400> 1556

```

tgggacatgt cgggtgaaccc gaatgcctag taaggcagct ctgatggagg aagccaagct 60
gatggcatct ctctggcact tggcagcgat ggccttcatt acttacgtgc tcctggctgg 120
gatggcactg ggcattcaga aaaggctcagt gccaaagcccc tcccttacct tccctccct 180
gtgagctctt ctcccaacct ccctagggca tatgtggtgg tccccagctc accctctgtt 240
gccccagtct ctcttctca ccctgcctc aggatgcctg gctctgagcc acccttgctt 300
tggcgcaggt tntncccgga ggtgctgggc ctgtgtgcaa gcacag 346

```

<210> 1557

<211> 1577

<212> DNA

<213> Homo sapiens

970

<400> 1557

```

cctccaagat ggccaccttt tttgcamagg cktwcccat cmaggggggc acagcccatt 60
caggtttgas cytgcwttggc ccmagctccy tcagtccctg cctggcaagt cctccatkgg 120
cacaacmasm ttcgcctggt ggaattttca gcttttctcg agcagcagcg agaccagac 180
tcgtacaaca aacacctctt cgtgcacatt gggcatgcca accattctta cagtgaacca 240
ttgcttgaat cagtggacat tcgtcagatt tatgacaaat ttcttgaaaa gaaaggtggc 300
ttaaaggaac tgtttggaac gggccctcaa aatgccytct tcctcgtaaa attctgggct 360
gatttaaact gcaatattca agatgatgct ggggcttttt atggtgtaac cagtcagtac 420
gagagtctcg aaaatatgac agtcacctgt tccaccaaag ttgctcctt tgggaagcaa 480
gtagtagwaa aagtagagac ggagtatgca aggtttgaga atgsccgatt tgtataccga 540
ataraccgct cccaatgtg tgaatatatg atcaacttca tccacaagct caaacactta 600
ccagagaaat atatgatgaa cagtgttttg gaaamcttca caatyttatt gstggttaaca 660
amcagggata cacamgawac tctactctgc atggcctgtg tgtttgaagt ttcaaamgt 720
gaacmcggag cacaacatca tatttacagg cttgtaaagg actgaacatg gttatttata 780
tatatagata tctgtatata cacacacaca tatgtgcaca cacacactct ctctccatta 840
tcgaacgact gactgtaaac ctcaccacac aggggtggtgc cctggccccg aggtcacccc 900
gacttttcta aatcttggtt gagtgaagtc attttttcat gtgttcatac tatcattgta 960
gctgtgaagt tctggtacag ttgtaaaaag agaaattgag ttgtttctct atgttcttca 1020
gatgtgcmgc ccacaattcc tcgggaaaagg tgaacctgaa caaccpcaagt ctctctctgc 1080
agagccctgt ttctaattgt ggtagaaaat attgagacrg rgcatttgcc atgggacatt 1140
tacagccttt atacaaatgt atttagttct cttttttcca acataaaatt cttgttttaa 1200
gatacaagta aaattaatct ttaaataata atgtaaatta gtacacaaaa ctaagaatct 1260
ttagacttat ctttgtaact aattaggggtg gaagtatatg aagaatgtaa ttcactaaat 1320
tattttttta atgaaacctt tttttttctt tttgaaacca aatgttaaac tatagcctta 1380
agaaatgctt ggtagaagtg tcctaattgag acaaatttgt acttttatcc tcaagggttaa 1440
cactaatctc ctaatccatt aaactcttga acaggatatta caaaggaaga aaacttcacc 1500
ccttatcctt aacatatata gtatatttta aaaatataaa attgtattgt actaatgtga 1560
tgatggatta tttaatg                                     1577

```

<210> 1558

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1558

```

gggcagacct gcgagagcag agggggcttc ggcaggcaac cgaccaccag gagctggtgg 60
aaatccccac caggccgctg ctgaccaagc tgagcctgat cacagcccca cggcggggag 120
agagggcgcc cgtccctcta cgtgcagggg gacatagtac aggagacaca gcgtgaggta 180
agaccaccgg cggggagggc ctgcacgtgg gccgggtgct cacacccgat tgggtcttcg 240
gagggttccc cagcccggga tttcggagga gcccttca                                     278

```

<210> 1559

<211> 751

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

971

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 1559

```

ntttgttcct gtcacctggg ttcattcttgt tgtgaagcac attaggtcca ggctcctccc 60
tctgggagtc tgactgtgaa actctttaac ccaacaactc aattagcccc tgtagataag 120
acatgcttcc cagagtgaga tttttgaaat ccccttttca tccagaacta tatttaccce 180
cctattgtaa ctattcarat agagcaaaat taggaggcct gataaatact aagaatttag 240
taccacagaa attatttatt attttccctg tagtccacaa ttagtgataa cgaatcctat 300
ttttgttaac tgtgacataa ctttgatgtc atatgttggt ctatgtgggt cttcctaagt 360
aaactctgta ctgattatat actgacttag caatgtggcc ttggaatgct gagcaaaatg 420
tggatgtact ggttgtaaat gtttatatat tgtacagtac ctttatatat acacttgagg 480
ttctgattag agaaagatct gttaaattgct cattatTTTT tatatagata tttaaaaaaa 540
acagtttatg gcctgcattt ctttnactgt cacattgggt taatgttgct ttctaattgg 600
ggagctaggt cccatcatag tctgagtcct caaatagatt ttgtccctcc aagtaacaaa 660
ctttcaaaagt cctaaaatca ggaagagtct tataataatg attttacctc tataggtata 720
cttttatTTA tttataaata gagtttgaaa t 751

```

<210> 1560

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<400> 1560

```

agcaacctat agatcatgan aggcaacggt nanctgacag taccgggtcgg aattccccggg 60
tcgaccacag cgctccrgcgg taaccgccac agctgccagc gacaggatgg agagcgactc 120
agactcagac aagagtagcg acaacagtgg cctgaagagg aagacgcctg cgctaaagat 180
gtcgggtctcg aaacgagccc gaaaaggcctc cagcgacctg gatcaggcca gcgtgtcccc 240
atccgaagag gagaactcgg aaagctcatc tgagtcggag aagaccagcg accaggactt 300
cacacctgag aagaaaagcag cgggtccgggc gccacggagg ggccctctgg ggggacggaa 360
aaaaaagaag gcgccgtcag cctccgactc cgactccaag gccgattcgg acggggccaa 420
gcctgagccg gtggccatgg cgcggtcggc gtcctcctcc tcctcttctc ctcctcctc 480
cgactccgat gtgtctgtga agaagcctcc gaggggcagg aagccagcgg agaagcctct 540

```

972

```

cccgaagccg cgagggcgga aaccgaagcc tgaacggcct ccgtccagct ccagcagtga 600
cagtgcacagc gacgaggtgg accgcatacag tgagtgggaag cggcgggacg aggcgcggag 660
gcgcgagctg gaggccccgc ggcggcgaga gcaggaggag gagctgcggc gcctgcggga 720
gcaggagaag gaggagaagg agcggaggcg cgagcgggcc gaccgcgggg aggctgagcg 780
gggcagcggc ggcagcagcg gggacgagct cagggaggac gatgagccc tcaagaagcg 840
gggacgcaag ggccggggcc ggggtcccc gtctctctct gactccgagc ccgaggccga 900
gctggagaga gaggccaaga aatcagcgaa gaagccgcag tcctcaagca cagagcccgc 960
caggaaacct ggccagaagg agaagagagt gcggccccgag gagaagcaac aagccaagcc 1020
cgtgaagggtg gaggcgaccc ggaagcggtc cgagggtctc tcgatggaca ggaaggtaga 1080
gaagaagaaa gagccctccg tggaggagaa gctgcagaag ctgcacagtg agatcaagtt 1140
tgcctaaaag gtcgacagcc cggacgtgaa gagggtgcctg aatgccctag aggagctggg 1200
aaccctgcag gtgacctctc agatcctcca gaagaacaca gacgtgggtg ccaccttgaa 1260
gaagattcgc cgttacaaa cgaacaagga cgtaatggag aaggcagcag aagtctatac 1320
ccggctcaag tcgcgggtcc tcggcccaa gatcgaggcg gtgcagaaag tgaacaaggc 1380
tgggatggag aaggagaagg ccgaggagaa gctggccggg gaggagctgg ccggggagga 1440
ggccccccag gagaaggcgg aggacaagcc cagcaccgat ctctcagccc cagtgaatgg 1500
cgaggccaca tcacagaagg gggagagcgc agaggacaag gagcacgagg agggtcggga 1560
ctcggaggag gggccaaggt gtggtcctc tgaagacctg cacgacagcg tacgggaggg 1620
tcccgcactg gacaggcctg ggagcgaccg gcaggagcgc gagagggcac ggggggactc 1680
ggaggccctg gacgaggaga gctgagccgc gggcagccag gccagcccc cggccgagct 1740
caggctgccc ctctccttcc ccggtctgca ggagagcaga gcagagaact gtggggaaacg 1800
ctgtgtgtgt tgtatttgtt cccttgggtt ttttttctt gcctaatttc tgtgatttcc 1860
aaccaacatg aaatgactat aaayggtttt ttaatgaaaa aaaaaaaaaa aaaggcgggc 1920
cgctctagag gatccctc                                     1938

```

<210> 1561

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 1561

```

cagcaccccc agcctgctga cagcagacag actgggtcct caaaggctct ggcccagacc 60
ctcccaccac ccacggytgc tggtgaaagc aattctgtga cctgcaactg tggccaggag 120
gctgtgctgc tcaactgtccg taaggagggg cccaaccggg gccggcagtt ctttaagtgc 180
aacggagggtg gctgcaactt ctctctgtgg gcagacagcc ccaatccggg agcaggaggg 240
cctcctgcyt tggcatatag acccctgggc gcctccctgg gatgcccacc agggccaggg 300
atccacctag gtgggttttg caaccctggg gatggcagtg gtagtggcac atcctgcctt 360
tgcagccagc cctccgtcac acggactgtg cagaaggatg gacccaacaa ggggcgccag 420
ttccacacat gtgccaaagg gagagagcag cagtgtggct ttttccagtg ggtcgatgag 480
aacaccgctc caggggacttc tggagccccg tcctggacag gagacagagg aagaaccctg 540
gagtcgggaag ccagaagcaa aaggcccccg gcaggttcct cagacatggg gtccacagca 600
aagaaacccc ggaaatgcag cytttgccac cagcctggga cacaccgctc ccttttgtcc 660
tcagaacaga tgagctcagg gtagggtaga gaacgccact ttyttcagac ctgtcccctt 720
tgtgtttagg aaatgagttt aaccaggggc caagtggggc attttagtgt tcctgggaaa 780
tttaggaggg acagtgtttg ggccttttgg agttgggggg tttctttgtt gttttaaggg 840
gggcacaaaag gttccagat ccattcttgg gagcaggggc agcttnttg 889

```

973

<210> 1562

<211> 1385

<212> DNA

<213> Homo sapiens

<400> 1562

```
ggtcggagcc ggggtgtccag ccggaagcgg cacccggtcg gccccccagg agaggcacag 60
gagggggagtg ccaaggctga gcggccaggc ctccagaaca tggagctggc gcctgtgcag 120
cgcaagatcg aggctcgctc ggcagaggac tccttcacag gcttcgtccg gaccctgtac 180
tttgctgaca cctacctgaa ggacagctcc cggcactgcc cctcgtgtg ggctggcacc 240
aatggggggca ccatctatgc cttctccctg cgtgtgcctc ccgccgagcg gagaatggat 300
gagcctgtgc gggcagagca ggccaaggag atccagctga tgcaccgggc gccggtggtg 360
ggcatcctgg tgctcgacgg acacagcgta ccccttccyg agccctcga agtggcccat 420
gatctgtcga agagccctga catgcaggga agccaccagc tgctcgtcgt atcagaggag 480
cagttcaagg tggtcacgct gcccaagggt agtsccaagc tgaagttgaa gctgacggcc 540
ctggaggggt caagagtgcg gcgggtcagc gtggcccact tcggcagtcg tcgagccgag 600
gactacgggg agcaccacct ggcagtcctt accaacctgg gcgacatcca ggtggtctcg 660
ctgcccctgc tcaagcccca ggtgcgctac agctgcatcc gccgggagga cgtcatggca 720
tcgcctcctg cgtcttcacc aaatatggcc aaggcttcta cctgatctca ccctcggagt 780
ttgagcgctt ctctctctcc accaagtggc tgggtggagcc ccggtgtctg gtggattcag 840
cagaaaccaa gaaccaccgc cctggtaacg gtgcggggccc caagaaggcc ccgagccgag 900
ccaggaaactc agggactcag agtgatggcg aggagaagca gcccggcctg gtgatggagc 960
gcgctctgct cagtgatgag agagcggcaa ctggcggttca catcgagcsg ccgtgggggtg 1020
cagcctcagc aatggcggag agtgagtggc tgagcgtcca ggctgcgcga tgagcacaca 1080
ctactactga tggcctttcg ggggtccctg ccccarccgg agaggccggt gcacagggcc 1140
ccgccagggg ctggggggcat cccggcttcc acaatgcagc tgctctgggc ctcgggagag 1200
gagagacccc agtcccctgg gctgcscttc ccgggcctcg tctgtctggg tccttttggtc 1260
aatgttgcac agtttttatt gctcccatcc cttttttagt tgggctgggt ttttaagttat 1320
aaatgttaac tgcctctggg tgaaaaagtt ttttaataaac acctattacc tcttgactgg 1380
tcaaa 1385
```

<210> 1563

<211> 862

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (784)

<223> n equals a,t,g, or c

974

<400> 1563

```

cagacctggg atcncacaca cacacacttt cacacacaca cttcacacat cacacnactc 60
ccaccaccgt catgatggag gaattacgta tacattcata ttttgtattg attttkgatt 120
atgaaaatca aaawttttca ctttgatta tgaaaatctc caaacatatg cacaagcaga 180
gatcatggta taataaatcc ctttgcaact ccaactcagcc ctgacaaccc atccacacac 240
ggccaggcct gtttatctac actgctgccc actcctctct ccagctccac atgctgtacc 300
tggatcattc tgaagcaa atccgagcatt acatcatttt gtccataaat atttctaaca 360
tccttaaata tacaatcgga attcaagcat ctcccattgt cccacaaatg tttggctgtt 420
tttgtagttg gattgtttgt attaggattc aagcaaggcc catatatgtc atttatttga 480
aatgtctgta agtctctttc catctacaga gtttagcaca tttgaacggt gctgggtgaa 540
atcccagagg gtcatttgac atgggtctct gaacttatct ttcctataaa atggtagtta 600
gatctggagg tctgattttg tggcaaaaat acttcctagg tgggtgctggg tacttcttgt 660
tgcatcctgt caggaggcag ataattgctgg tgccctctcta ttggtaattg taagactgct 720
gggtgggttt ggagtcttg gctttaatca ttcattacaa agttcagcat tttacctgat 780
cgtntcagtg gtcattgatg atcattgctg agatccacac tatattaggg gcggcagaac 840
aggtgttttt ctaattctgc ta                                     862

```

<210> 1564

<211> 3107

<212> DNA

<213> Homo sapiens

<400> 1564

```

ggaatgtttc aaaaggatat gatgaactga ggcttatcga gtcagggagc agaaagctga 60
aataagaccg ctaagctcta aacaaatccg ttaaagcttc acagggcaga gcagaacaaa 120
aatagtatac tcaatgtata gtcggaaaagc agccgaagaa gtgaagcgag aactgataaa 180
gttaaaagtg aactattaca ttctagaaga gtcattggtg gtaagaagat ccaagcctgg 240
ttgcagtatg cctgaaattt gggatgtaga agatcctgcc aatgctggga aaactccctt 300
atgtaacctc ttggtgaagg attccaaacc tcacttcacc actgtattcc agaacagtgt 360
ttacaaagtc ctagaagttg taaaagaatg actgctacat gacctgctgc ctacggagaa 420
ctacatctgt aatggtttta atgttttgct aagtcattgt ttgttcataat cccaaaaact 480
tttataggta actgttttca aatagaaaac gttttatttg gtcaatttga atgtcattct 540
aattataaaa atgacttaca cctttatcaa ttgggttacta tttcaatgca ccttttaaaa 600
tttgctatgc aaatgagtat atgcttgtag ttgactttta tatttgtgct aaagttagca 660
aagctaactg tataaagaaa acacagtggg ttgtgacaag gatgacatga aaatacagga 720
caattctgac aatgtagggg ctgattttat agtgaagaa ctattaatgc cccttgsttc 780
ttttttctgc ctcttgctct tgtcttttgg acatttcagt gattgtaagt tcttcgggtc 840
tgtcagcccc tgtcatcaac ttgagttaca gtagatgggg cagacatgga gtgtttgcta 900
tatagaacta tctgtttgtt ttacttcctt gtgcgctttt tgttctctgt tctcttgcta 960
atgaagcttt tctgcccatt tattaatcca aactcttgga ccttggtggt aggaaattcc 1020
cttaacttcc agccatatgg cattatcgtg tctctttctc tctctctctt gctctctctc 1080
ttctctctct ccccatattt tctgtcaaat aagtactgtt tactcattta gttgcttata 1140
aagtacttat tcttggtttt aaaaaaaatt aatggtaact gtatttttct catttttagc 1200
attattcaaa tgtttatatt ttaatacctt taaaccactt taaagttttt tcatgtttta 1260
ttatagtttt aagaaaaact attttgaaca accccaaata tagtgcattc agaaactaat 1320
gtatatttga ttagacatca tttatagtgg aacagtagac ttagtagcat ggtaattttt 1380
cttttactat taagatacaa taaaacatga ctaattttgc tgtcaaaaat gtaagaata 1440
atgataaatg gagtttttat attttacttt taagattgcc tgtctttta aagacaaagc 1500
cttaagcctt atgtttataat tttggttcta aaaaccatca tttcagtata aggaataagt 1560
atatttcgtc ctctctttta gtttttttct tcctatttat ttttattttg aaaaatttct 1620

```

975

```

acaccttctt tgaattcctt gtatgaatth ttgtttctta gaagttaatt tgtgtgaaat 1680
gagattcttc aaaacgatga aacctcatag ctctgagaaa aggttttagg gttttaaatt 1740
ctaagcaaag cgtgactatg gctgacagac tacacattta attatacagc ttctctttct 1800
taaccacagg cagattaacc tcattgtgga ttgtccttca gaccttagtc ctcaggcatg 1860
gtttctggtg cccactcctg gaagccgctg ttccctttct accttcttac cagagcccaa 1920
gggcaggcct ggtcccgggg aagcagcagc ttgctgacat aagtcagctg caaaggctga 1980
ggagtgtgcc ctcagagaag caccgcccc cagtcttggt ccagcgcta gagccgcagc 2040
tcccagggat gctccttccc tggaggcagc ccaggagagg gactctggca gcgttcttca 2100
gatttgtggc cactgtttct catttgctgg ttgactgttt ttatttctta ggcttttgct 2160
agtttttagaa aatagggaag cagcccttga tttgtggatt aaaagcaaca tttgagcgat 2220
gatgcacaac agtccaggaa aatgggcggt ggacacttga ggctgaggat gggagtgtgac 2280
atgagcaggg agagggagggt gcgcgctgct tatctgtgat tgttgctcac ctgagtgtgg 2340
ctgattgtgt acatccagca gttacaatth ttaaaaaatta tacttttaca tttattttat 2400
atthtttctca cccccagtaa tttccttcca aagaagttca catgtaataa gtagaaattc 2460
tgtataggaa aaaagcatta aaaatactat tataactgct tcatttgctg ggaaccatta 2520
aaagtaatat aaattagctt tttccagaag gatcctthttg tagcagtgtt tatgaatgta 2580
acccccagca aaatatggct atatatagg ggagccagtt tggagcagag gcctgaagggt 2640
ccctgctatg cagccgtggc cacagctcgc agcccaagca ctgtggagca tccacacctt 2700
tgatggcaat gcagattggt agcaggttcc ataggcgtac aaaacagtat taaagctcag 2760
tgttttgcac attgttagca tttacaaata tttttgcttt agtatgagga aagtaaggat 2820
gggcaaagaa gcgatcaaaa tagctattgc tacaacattt tcgaaaacaa agttggggct 2880
gtatttctth aaaaagataa gcctctaaaa atgcttggca aaaaaaatat agtgttaaaa 2940
taggccagtg atattaatga gaaaatgaaa gtatgtatca ggaataaagt gatattgcat 3000
aggagtattg tatttttatg aattttatgc cagttgttta catgtactat atatgttaaa 3060
ttaaaaaaaa tcatgagtaa tgaaaaaaa aaaaaaaa aaaaatt 3107

```

<210> 1565

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 1565

```

ctcgtgccga attcggcacg agstctctgc aggccccatc gagggaagaa gctgccaaagt 60
ggagccagggt ccggaagat ctgtgctctt traaggcttc tctgcagctg cgggggggag 120
atggcagtgct ctggaactac aaacccccag ccgacagtgg cggnaaagag atcttctccc 180
tgctgcccc catggctgac atgtcaacct acatgttcaa aggcacatc agcttttgcca 240

```


976

aagtcacatctc ctacttcagg gacttgccca tcgaggacca gatctcctgc tgaaggnngc 300

<210> 1566

<211> 537

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<400> 1566

```

ggtgacagct sccagcggca tcctcgatgt caccgtgggc tacctgaacc cagaacagca 60
ttgtgccag gaatccagt atgaggagggc ttgtccagag gacaagggac cccaggaccc 120
acaggcactg gcgctggaca cccagatccc tgcaacccct ggacccaaac ccctgggccg 180
caccagccgg gagccaggga aggacgtcac gacctcaggg tactcctccg tcagcaccgc 240
aagtcccaca agctccgtgg acggtggcctt gggggccctg ccccaacctt cctcagtgtt 300
gtccctggac agtgactcgc acacacagcc ctgccaccat caggccagga agtcatgttt 360
acagtgtcgt cccccaagtc ccccgagag cagtgttccc cagcaacagg tgaagcggat 420
aaacctatgc atacacagtg aggaggagga catgaacctg ggccttgtga ggctgtaagt 480
gtgtcagcac atttgccgca ntggatktgt actgangggg gtggagcgaa ggtggaa 537

```

<210> 1567

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<400> 1567

```

gtggttgccct taatgatgaa cacttggaag aactgggagg aatactgaaa gcaaaacttg 60
aagggcactt taaaaaccaa gaattgagac aggtgaaaag acaggaagaa aactatgatc 120
aacaggttga gatgtctctg cangatgagg atgaatgtga tgtttatatt ctgaccaaag 180
tatcagatat tntgcactca ttatttaagt acttatgaag garaagattt taccatgggt 240
tgaacaacta cttccattaa ttgtaaatct aatttgtttc aagtaggcca tggccagaca 300
gacatggggg ttgtggcata tttggatgga cat 333

```

977

<210> 1568
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<400> 1568
acgagggcag caccagctgg aaggcggcct tggaggttc caagggctgc atcaagtgcg 60
aaggccctgc ccggaggact ggctgctcta cggaaggaag tgctacttct tttccgagga 120
acccagagac tggaacacag gcaggcagta ctgccacacc cagcaggcgg tgctggctgt 180
gattcagagc cagaaggagc tggaatttat gttcaagtgc acgcggaggg agccctggat 240
tggactacgc agagttgggg acgaattcca ctgggtcaac ggggacccgt ttgatccgga 300
cacgttcacc atcgcagggtc caggggagtg tgtcttcgtg gagcccacca ggctgggtgtc 360
gacggagtgt ctgatgaccc ggccctgggt gtgcagcaag atggcctata cttgargtgg 420
gtkgggccag angtkgccmg cccctargcc tgtgggargt gtctgggtgtc tgctcaagac 480
ctgcttcacg cggacgcgcc tgccctctgc aaggcgaaac ggtgggtgcg tggcctccgc 540
cccaggcccc tctccagggc cctggcgctc tgagtccttg gttcctggcc tcctttgtct 600
gcaggcaggt cgtgtggctc agcagttaaa tcccatatgc taggtagt 649

<210> 1569
<211> 393
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<400> 1569
cggagccag cccggagctg agggggccag ggcctttgga ggaagcattg gcctccaggc 60
tgaagagcaa gggccgtgtc acctgccgg agggcggctc catctctgca gccaggtcag 120
aggaagcagc ggtggggaga cggagtgcgc gagttgggag gctccacgca tcgtaggtgg 180
agagctggct gccagcctgg cctgccctct cttccccgtc ccaccatctc gcttggctcc 240
ggcacctgcc tgggaagacc cacacctccg tctgcagtgc ctcttcccc tggaggccct 300
gccctccgct cgggggtccc gcatecttcc gtggccctca gagcatcgcc tggggcgccc 360
gcngaactca tctgttaagc ctgggatcan gca 393

<210> 1570
<211> 566
<212> DNA
<213> Homo sapiens

978

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 1570

```

gaattcggcc gaggagagat ctctagggga cctgatgtgc acttgacaca tggccttgag 60
cccaaagatg ttaacaggga atttaggcta acagagagca gcacttgatga gccttctact 120
gtggctgctg tcctatctcg agctcaaggc tgcagatccc cttctgctcc tgacgtgagg 180
acaggttcct tcagccactc agctactgat ggaagcgtgg ggtaaatagg ggttcctgag 240
aaaaagggtg ctgagaagca agcaagcaca gaacttgagg ctgcctcttt ccctgcargc 300
atgtactctg agcccctgag gcagtttagg gacagctctg taggtgacca gaatgcacag 360
gtgtgtcaaa ccaattccag aaccamctgc aacaactcag gggaccacac accctggatt 420
taagtgaarg gtctgctgag agcaagttgg tggtagagcc acagcatgaa tgtttagaaa 480
ataccactag atgttttttg gaaaagccac aattttccac tgagttgagg gatcacaatc 540
gcttggttgc ccaagncaag tttgta 566

```

<210> 1571

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 1571

```

gctacctagt gtctccttct gacctcatta tctgtctgaa taaacttcag atgggtactg 60
gatgtatatt gactactgtc aaataaaatg aactttgttt tagttaaggt cagatatgat 120
gtggttggtg tgttttgga catgtttttt cagggtgcat ctggagggtgg tgggggttga 180
gatggtgttc aagaaccaac cacaggcaac tggagaggaa tgctgaaaac ttcaaaagct 240
gaagagttat tagcagaaga aaaatcaaaa ccattccaa ttatgccagc cagtccacaa 300
aaaggtcatg ccgtgaacct gctagatgtg ccagttcctg ttgcacgaaa actatctgct 360
cgggaacagc gagattgtga ggttattgaa cgactcatta aatcatatct tctcattgtc 420
agaaagaata ttcaagacag tgtgccaaag gcagtaatgc attttttggg taatcatgtg 480
aaagacactc ttcagagtga gctagtaggc cagctgtata aatcatcctt attggatgat 540
cttctgacag aatctgagga catggcacag cgcaggaaaag aagcagctga tatgctaaag 600
gcattacaag gagccagtca aattattgct gaaatccggg agactcatct ttggtgaaga 660
gaactatgta atactgagac tttgttgact caaaacttgc tagttactgc ctacctgagt 720
agaatcttat ttatgaactc ctgtgtattg caatggtagt aatctgctca tgtggagact 780
ggctataaac tgaaaagtgt attccaaatt gcagaacaca tcacacatct aatccaaata 840
ataaatggct gtttctaaag tttcccagta tatataaaat acatcaagtc tgtcttgtga 900
cagtttcatc tgaacttaac ttaaaaacaa ctgttaatgt tctagttgtg caaagcagtt 960
tgctgtgga taagatgacc tgtgtaataa tctttgttag tagtcttaa gctgctgcca 1020
tagtcctcca agaagaaagc accaagacaa catttcatat gactataatg catgtactat 1080
ataagctgat ctggccttga aagatgtgag ttggcaagtt cctcacatag agtcattgta 1140
ttccacctgt ccttcaattt agttttttct gagcttcttt gcagcctttg atgtgttttt 1200
aagaaagctg aatgcacaag aggatctgtg aactgacat ggctgtgggtg tgcatactgt 1260
gtagttacat agcccttcca attctgggtc catttgcact agcaaattaa aatatgcttt 1320
gattcatact taaacctgaa agcaggaatg cctacattaa ttctacatt aaaaacagcc 1380
atctaccctt gattatctag waagacttgg taatgatggg cagttccttt tagatttcag 1440
aaaatcaaat gatgacctaa atttccctta atttgcaaat acagtagtaa ttaagggtaca 1500
tctctaaagt ggagcactta caccaggctc taagattcac tttgaggtgg aacttaaaac 1560
cagtgtactg tatgtatgca ttggtaatat ctacttttgc ttcatagctt cataccaaca 1620

```

979

aaatatatattt attagaatag tatgaaagta ctggagg

1657

<210> 1572

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 1572

```

ggcacgagaa ataatcacct ggagtttggt aaaccatatg gattctcagg ctccctctctt 60
gaagattctg attcagtagg tctgggagtg gcgccctgga ttttgatcaa aattgtagag 120
cattttaagg tgagtacctg agggagaact taaagacatc ttagttgggg agtagtcctt 180
ttgaatttta cagctagata taatcttcag tcagataaaa tttatgggag ctggtgtctt 240
atgcctgact cttagtaatt tcataccggg ttgaagtacg tgtgcccatg cctaaagcct 300
tgactttcag aatgttgtct tttgattctt ctgtcttgat ttgattaggg gtgaaattta 360
gaagtcttag taatgtaact tgaagatgtt aaacaaaaat ctcaagtaaa atgaaaagca 420
aatatgggct actgaattaa gaaactggca ttctagtatt aaatcctcac ttcaggagct 480
tttaaaaaata ctgagacccc cccataacca gagattcaga ttcaaagact gaggatagga 540
ccttagcatt gtagctatct aaagtttcta atgtgcaccc agggttggga atcaccaatg 600
tgggtgtgaa aatgcctaca aagggtttta gtgccttaga agtcctaaga agcccaatct 660
gtatcaaaagc agatccattt tgcaaggatc tttcttttag aactttctca gttctcttag 720
taagaacttt agaagtaatc ttgataataa gcacagacag cctaacagca gaggcaactt 780
aaataactcc tgagcagttg gcactagaac agaatacttg gaatgacacc aaagttaacc 840
aagtccagca tatgtccaaa gagttaagtg tttcatttac tgtagcattc tgggtgagaa 900
attggttgct gaaatcttaa gacagtggtc tcaaccttgg ctgcacattg gaatcacctg 960
tagggtttta aagcatccaa atggtaatta acaggcagca aaacttcaga actagttctg 1020
catctactgt gcaaagatca tgattaactg tcaagacact ggtagaacag aacaagcaaa 1080
agattaagag ttcaaaagta aatgcaacca wtttaacatg tagtgttatt aaaaaattac 1140
aaaggcctag accagcctgg gcaacagaga ccatgcttaa aaaaaa 1186

```

<210> 1573

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 1573

```

gtgctntttt ttnaatgctg gggttaaaca aagtgtctctt cttggactta aagacctttt 60
gtctcaatac ccattttataa ttgatgcaca cttttcaaac atattaagtg aagtgtactgc 120
tgtgttttaca gataaagatg ctaatgtacg attagcagca gttcaacttc ttcaattcct 180
ggcccccaaa atacgagctg aacaaatttc tccattttttt cttttggtaa gtgcccatct 240
ctctagtgcc atgactcaca ttactgaagg aattcaggag gactctttta aagtttttgg 300
cattctgctg gaacagtacc cagctctaata tactggccgt agcagcatat tgcttaagaa 360

```

980

```

ttttgtagaa cttatctctc atcagcagct gtccaaagga ctgataaata gagacagatc 420
ccagtcctgg atactctctg taaatcctaa tcggagactc acttctcagc aatggagggt 480
gaaagtctta gtgagactca gtaaattcct tcaggccttg gcagatggat ccagtagggt 540
gagagaaaagt gaaggacttc aggaacagaa agaaaatccc catgccacta gcaactycat 600
ttttatcaac tggaaggaac atgccaacga ccagcaacac atycagggtt atgaaaatgg 660
ggggtcacar gcaaaggyag gtccargtya agstacggat ctggttggag gactgatggg 720
gggat 725

```

<210> 1574

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 1574

```

caaaagcata gagaaattat aaaattcaag aacagatgtt agaatggaaa ctgatctaga 60
ggttataata aaggataata gtcttggtgct gacaccatca cacatcaaag cctacatgtt 120
gatgactctt caaggattag aatatcttaca tcaacattgg atcctacata gggatctgaa 180
accaaacaac ttgttgctag atgaaaatgg agttctaaaa ctggcagatt ttggcctggc 240
caaatctttt gggagcccca atagagctta tacacatcag gttgtaacca ggtggtatcg 300
ggcccccag ttactatttg gagctaggat gtatgggtgta ggtgtggaca tgtgggctgt 360
tggctgtata ttagcagagt tacttctaag ggttcctttt ttgccaggag attcagacct 420
tgatcagcta acaagaatat ttgaaacttt gggcacacca actgaggaac agtggccgga 480
catgtgtagt cttccagatt atgtgacatt taagagtttc cctggaatac ctttgcataca 540
catcttcagt gcagcaggag acgacttact agatctcata caaggcttat tcttatctaa 600
tccatgtgct cgaattacgg ccacacaggc actgaaaatg aagtatttca gtaatcggcc 660
agggccaaac cctggatgtc agctgccaaag accaaaactgt ccagtggaaa ccttaaagga 720
gcaatcaaat ccagcttttg caataaaaag gaaaagaaca gaggccttag aacaaggagg 780
attgcccaag aaactaattt tttaaagaga aactggaca acattttact actgagggaa 840
atagccaaaa aggcaataaa tggaataata gtaaacatta agtaaatgct gtagaagtga 900
gtttgtaaat attctacaca tgtaaaatat gtaaaactat gggttatctt tattaaatgt 960
attttaaaat aaaaatttaa ttctggtttt tctgattaga gtgcaaaaagt gagaaaagt 1020
caatactctt gaaatgtaga attgaaaatg cattagggaa aacttaataa aaattattac 1080
cagttatttg gaagatctga cccatatagt atcacaaatc tgtagtagca tgggt 1135

```

<210> 1575

<211> 859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (845)

<223> n equals a,t,g, or c

<400> 1575

```

taagatagca aaccagttcg ttttaagtaa gctaacttgt tcattagtat ctgtggctta 60
aaatggcaaa aaagaaaata tccttgagtt tgtaatctag ttacagaagt aaggcataca 120
cacacacaaa gataacagta cctagagaga gagtgtgtgt gagtgtgctg gtctctgtgt 180
gtgcacgtgc acgctcatgg ccaaagtgtc gcactctaca taaaggaggc aggagttcct 240
ataggctatt taatgtaaga gaaactatct ttctcctgtt ccagctgtat cagatactcg 300
ttccgcaaca cagaaatgac tcagaatctc agacaaaatg tattatttgt tcaattttta 360

```

981

```

ttttgctact acattcataa ctcttaaatt gtttagctgt ttcatttaca tcaaagttat 420
ctcacaaaag agaaggcagg aaacgttttg tgagtgccta ttctatgtca aacactgtgt 480
tggcaccata ttttacaagt ttttttcctc ttctcacagt gatcttgtga gttagttact 540
tatattttta ttagaactca ttattctggg taccctccaa tgagaattag agaggttaaa 600
tacctttttcc tagattccca cagcaggaag gtgggcatag ctgttttgtc tgacaccaga 660
acccatctca ccacactgct ttacagtctt cctgaaggac attttgagggt gggggggggt 720
tcaaagctca gagactgggt ttgaatgggt ttaattttgc aakggatcat gtccatgcca 780
ggtgttacaa ttcttaactt cctccaaatt cgkggtgtcca ttagacattt ggggtacatcc 840
gggcngggga gggtcaggg                                     859

```

<210> 1576

<211> 732

<212> DNA

<213> Homo sapiens

<400> 1576

```

cgggtcgacc cacgcgtccg agaaaaagag ggaggagaga aggaagggtcc tggaggaggc 60
tgaagcagag gaggaagagg aagagtgagg gatggagaaa gggcagagga agagacatga 120
gaaagggaga ggaagagaag ccagctctg ggaactgaat caggaaactc aaatcgaata 180
gggaagtaaa aaaacaaaac aaaaaacaaa aaaaaacaaa aaaaaaccct atttaaatga 240
aaggagttta aaaacatttt ttaaggaggg agaaaggaga aatttttggt tttcaacact 300
gaaaaaatac tacctatagg aaagtctgtc aggttttggt tttttgtaca atatgaaaag 360
gatattatct acctgttctg tagctttctg gaatttacct ccccttttct atgttgctat 420
tgtaaggctt ttgtaaaatc ttgcagtttt gtaagccctc tttaatgctg tctttgtgga 480
ctgtgggtct ggactaacc cgtgtgtgcc tgccctcctg agcctccgcc ttcccagcag 540
cggcaccaag gggccttagg gagcccaaaa acctaccact cgcgtgttcc ccaagcgcct 600
ggctgctgct tcttgcttcc cgtccccag ccccatgtct ccttttacat tctgtgtgta 660
tctaaaggat ggaaaaataa aacgcaatta aaaataaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aa                                     732

```

<210> 1577

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1588)

<223> n equals a,t,g, or c

<400> 1577

```

tcttgtcttg gccggtggtg gccaaaccaag tgttgaaact tgggaacctt gagttcaagc 60
ccgaatctcg agtgaatggt ctagatgaaa gcaaaatcaa agataaaaaat gagttaaaaag 120
aaattttgtga attgaccggc attgatcaat cagttctaga acgagcattc agtttccgaa 180
cagttgaggc caaacaggag aaagtttcaa ctacactgaa tgtggctcag gcttattatg 240
ccgtgatgc tctggctaaa aacctctaca gcagggtgtt ttcattggtg gtaaatcgaa 300
tcaatgaaag cattaaggca caaacaaaag tgagaaagaa ggtcatgggt gttctggaca 360
tttatggctt tgagattttc gaggacaaca gctttgagca gttcattatt aattattgta 420
acgaaaagct gcaacaaatc ttcattgaac ttactcttaa agaagagcag gaggagtata 480
tacgggagga tatagaatgg actcacattg actacttcaa taatgctatc atttgtgacc 540
taatagaaaa taacacaaat ggaatcctgg ccatgctgga tgaagagtgc ctcagacctg 600

```

982

```

gcacagtcac tgatgagacc ttcttagaaa agctgaacca agtatgtgcc acccaccagc 660
atTTtgaaag caggatgagc aagtgtcttc ggTtctctca tgacacgtct ctgcctcaca 720
gctgcttcag gatccagcat tatgtctggaa aggtgtctgta ccagggtggaa ggattcgttg 780
acaaaaacaa tgaccttmtc tategagacc tgtcccaagc catgtggaag gccagccatg 840
ccctcatcaa gtctttgttc cccgaaggga atccccgcaa gatcaacctg aaaaggcctc 900
ctacagcagg ctacagttc aaggcatccg tggccactct gatgaaaaac ctacagacca 960
wgaamccaaa ctatattagg tgtatcaaac cgaatgataa aaaagcagca cacatcttca 1020
acgaggtctt agtgtgtcat cagatcaggt acctgggggt tttggagaac gtccgagtgc 1080
ggagggcagg ctacgccttc aggcaggcct atgaaccttg cctagaaaga taaaaatgc 1140
tttgtaaaca aacatggcct cattggaaag gaccagccag gtctggtgtg gaggctctat 1200
ttaatgaatt agaaattccc gtggaagaat actccttttg tagatcaaag atattcatcc 1260
gaaacccaag aacattattc aaattagaag acctgaggaa gcaacgcctg gaggacttgg 1320
ccactctcat tcagaagata tatcgggggg ggaaatgccg cacacacttc ctgctaataga 1380
aaaaaagcca aattgtgatt gccgcctggg acaggagata tgcgcaacaa aagagggtacc 1440
agcagacaaa gagttccgcc ttagtaattc agtcttatat cgggggttgg aagggtcgaa 1500
aaattctgcg ggaactgaag catcaaaagc gctgtaagga agcagtcacg accattgctg 1560
catattggca tgggacccar gywswanga agaatcagga aattcttcag agccaatgct 1620
ggaaaagaaa atctat 1636

```

<210> 1578

<211> 659

<212> DNA

<213> Homo sapiens

<400> 1578

```

gaattcggca cgagaaaaat gaccctatga ttgtgtcttt taaaaaggcc aagcccaatc 60
ctcttcaacc ccggtcacc ctctggtggg ccacggttg gcacaacttc cccaactgat 120
gggcccttgg cttcagctat cctccttgcc gcaatttctt gggcaaagat gcttctctta 180
ccagatgttg ctgatttccc ctgtggggca aaaagaaaac ccaggttact gatgctcatc 240
atcccacttt cctctcaacc tctttatatc aaggcctctg gaacaaagag ataaaagggg 300
atttgtcaa tttccaggga tcacaaccct agttctcaga aaaaggagag gtctataaga 360
gtaaagggtc tagactctga cagacttggg ttgaagttct ggctcttcta cctattagat 420
gtgtggtgtt ggacaagtta tttatctctt tggggtctca gtttctctat atgaaaaatg 480
ggaataagga ctctcatcc ccaaggatc atcatgatac ctgccttata tgtttgttat 540
gaagattaaa agaagtaatg ggtatgaagt gcttagtatg atcctgcttt gtaaatataa 600
ttgcttatca tcattaaaac tacctgcctg gagaaaaaaa aaaaaaaaaa aaactcgag 659

```

<210> 1579

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 1579

```

gcggaacgct gggaaacaag ctgctaacaa tagtttgctt ttacatcttc ttaaaagcca 60
gactatacct aagccaatga atggacacag tcacagtga agaggaagca tttttgagga 120
aagtagtaca cctamaacta ttgakaata ttcagawaac aaycctagtt ttacagatga 180
cagcagtggt gatgaaagt cttattccaa ctgtgttccc atagacttgt cttgcaaaca 240
csgaactgaa aaatcagaat ctgaccaacc tgtttccctg gataacttca ctcaatcctt 300
gctaaacact tgggatccaa aagtcccaga tgtagatata aaagaagatc aagataaccyc 360
aaagaattct aagctaaact cacaccagaa agtaaacact cttcaattgc wacttggcca 420
taagaatgaa gaaaatgtag aaaaaaacac cagcccycag ggrgtacaca atgatgtgag 480

```

983

```

caagttcaat acmcaaaatt wtgcaaggac ttctgtgata gaaagcccca gtacaaatcg 540
gactactcca gtgagcactc cacctttact tacatcaagc aaagcagggg ctcccatcaa 600
tctctctcaa cactctctgg tcatcaaatg gaattcccca ccataatgtc gcagtactca 660
gtctgaaaag ctaacaaata ctgcatctaa ccaactcaatg gaccttacia aaagcaaaga 720
cccaccagga gagaaaccag cccaaaatga aggtgcacag aactctgcaa cgtttagtgc 780
cagtaagctg ttacaaaatt tagcacaatg kggaaatgcag tcatccatgt cagtgggaaga 840
gcagagaccc agcaaacagc tgttaactgg aaacacagat aaaccgatag gtatgattga 900
tagattaaat agccctttgc tctcaaataa aacaaatgca gttgaagaaa ataaagcatt 960
tagtagtcaa ccaacagggt ctgaaccagg gctttctggt tctgaaatag aaaatctgct 1020
tgaaagacgt actgtcctcc agttgtcctc ggggaacccc aacaaagggg agagtgaaaa 1080
aaaagagaaa actcccttaa gagatgaaag tactcaggaa cactcagaga gagctttaag 1140
tgaacaaata ctgatggtga aaataaaatc tgagccttgt gatgacttac aaattcctaa 1200
cacaaatgtg cacttgagcc atgatgctaa gagtgcacca ttcttgggta tggctcctgc 1260
tgtgcagaga agcgcacctg ccttaccagt gtccgaagac tttaaategg agcctgtttc 1320
acctcaggat ttttctttct ccaagaatgg tctgctaagt cgattgctaa gacaaaatca 1380
agatagttag ctggcagatg attcagacag gagtacacaga aataatgaaa tggcacttct 1440
agaatcaaag aatctttgca tgggtccctaa gaaaaggaag ctttatactg agccattaga 1500
aaatccattt aaaaagatga aaaacaacat tgttgatgct gcaaacaatc acagtgtccc 1560
agaagtactg tatgggtcct tgcttaacca ggaagagctg aaatttagca gaaatgatct 1620
tgaatttaaa tatcctgctg gtcattggctc agccagcgaa agtgaacaca ggagttgggc 1680
cagagagagc aaaagcttta atgttctgaa acagctgctt ctctcagaaa actgtgtgctg 1740
agatttgtcc ccgcacagaa gtaactctgt ggctgacagt aaaaaggaaa ggacacaaaa 1800
ataatgtgac caacagcaaa cctgrattta gctttcttct ttaaattggac tgatgtacag 1860
ttccct 1866

```

<210> 1580

<211> 1496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

984

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<400> 1580

```

annctatataca ncatacacagg aanggtanac tgacagtacg gtcggattcc cgggtcgacc 60
cacgcgtccg ctgagccatt agaaaatcca tttaaaaaga tgaaaaacaa cattgttgat 120
gctgcaaaca atcacagtgc cccagaagta ctgtatgggt ccttgcttaa ccaggaagag 180
ctgaaaattha gcagaaatga tcttgaatth aaatatcctg ctggtcatgg ctcagccagc 240
gaaagtgaac acaggagtth ggccagagag agcaaaaagct ttaatgttct gaaacagctg 300
cttctctcag aaaactgtgt gcgagatttg tccccgcaca gaagtaactc tgtggctgac 360
agtaaaaaaga aaggacacaa aaataatgtg accaacagca aacctgaatt tagcatttct 420
tctttaaatg gactgatgta cagttccact cagcccagca gttgcatgga taacaggaca 480
ttttcatacc caggtgtagt aaaaactcct gtgagtccta ctttccctga gcacttgggc 540
tgtgcagggt ctagaccaga atctgggctt ttgaatgggt gttccatgcc cagtgaagaaa 600
ggaccatta agtgggttat cactgatgcg gagaagaatg agtatgaaaa agactctcca 660
agattgacca aaaccaaccc aatactatat tacatgcttc aaaaaggagg caattctgtt 720
accagtcgag aaacacaaga caaggacatt tggaggagg cttcatctgc tgaaagtgtc 780
tcacaggta cagccaaaga agagttactt cctactgcag aaacgaaagc ttctttcttt 840
aatttaagaa gcccttacaa tagccatatg ggaaataatg cttctcgccc acacagcgca 900
aatggagaag tttatggact tctgggaagc gtgctaacga taaagaaaga atcagaataa 960
aatgtacctg ccattccagt ttggatcttt ttaaaactaa tgagtatgaa cttgagatct 1020
gtataaataa gagcatgatt tgaaaaaag catggtataa ttgaaacttt tttcattttg 1080
aaaagtattg gttactggtg atgttgaaat atgcatacta atttttgctt aacattagat 1140
gtcatgagga aactactgaa ctagcaattg gttgtttaac acttctgtat gcgtcagata 1200
acaactgtga gtagcctatg aatgaaattc ttttataaat attaggcata aattaaaatg 1260
taaaactcca ttcatagttg attaatgcat tttgctgcct ttattagggg actttatttt 1320
gcttttcaga agtcagccta cataacacat ttttaaagtc taaactgtta aacaactctt 1380
taaaggataa ttatccaata aaaaaaac tagtgctgat tcacagctta ttatccaatt 1440
caaaaataaa ttagaaaaat atatgcttac atttttcact tttgctaaaa aaaaaa 1496

```

<210> 1581

<211> 3898

<212> DNA

<213> Homo sapiens

<400> 1581

```

cacacttgaa gctgaaaaag aaagaagaaa atctgggcta tctcaagag ttcagtttcg 60
aaaccaaggt tctgagccca aatatactca agaactaact ctgaagaggc agaaacagaa 120
agtgtgcatg gaggaacccc tgtggctaca ggataatatc agagataaac tgcgtcccat 180
tcccataact gcctcagtgg agatccaaga gccaaagctct cgtaggcgag tgaattcact 240
tccagaagtt ctccaattc tgaattcaga tgaacccaag acagctcata ttgatgttca 300
cttcttaaaa gagggatgtg gagacgacaa tgtatgtaac agcaacctta aactagaata 360
taaattttgc acccgagaag gaaatcmaga caaatwtct tatttacaa ttcaaaaagg 420
tgtaccagaa ctagtcttaa aagatcagaa ggatattgct ttagaaataa cagtacaaa 480
cagcccttc aaccaagga atcccacaaa agatggcgat gaygcccatg aggctaaact 540
gattgcaacg tttccagaca ctttaaccta ttctgcata agagaactga gggctttccc 600
tgagaaacag ttgagttgtg ttgccacca gaatggctcg caagctgact gtgagctcg 660
aaatcctttt aaaagaaatt caaatgtcac tttttatttg gttttaagta caactgaagt 720
cacctttgac accccagatc tggatattaa tctgaagtta gaaacaacaa gcaatcaaga 780
taatttggct ccaattacag ctaaagcaaa agtggttatt gaactgcttt tatcggtctc 840

```

985

```

gggagttgct aaaccttccc aggtgtatatt tggaggtaca gttgttggcg agcaagctat 900
gaaatctgaa gatgaagtgg gaagtttaat agagtatgaa ttcagggtaa taaacttagg 960
taaacctctt acaaacctcg gcacagcaac cttgaacatt cagtggccaa aagaaattag 1020
caatgggaaa tggttgcttt atttggtgaa agtagaatcc aaaggattgg aaaaggtaac 1080
ttgtgagcca caaaaggaga taaactccct gaacctaacg gagkctcaca actcaagaaa 1140
gaaacgggaa attactgaaa aacagataga tgataacaga aaattttctt tatttgctga 1200
aagaaaatac cagactctta actgtagcgt gaacgtgaac tgtgtgaaca tcagatgccc 1260
sctgcggggg ctggacagca aggcgtctct tattttgcgc tcgaggttat ggmacagcac 1320
atttctagag gaatattcca aactgaacta cttggacatt ctcattgcgag ccttcattga 1380
tgtgactgct gctgccgaaa atatcaggct gccaaatgca ggcactcagg ttcgagtga 1440
tgtgtttccc tcaaagactg tagctcagta ttcgggagta ccttggtgga tcatcctagt 1500
ggctattctc gctgggatct tgatgcttgc tttattagt tttatactat ggaagtgtgg 1560
tttcttcaag agaaaataaga aagatcatta tgatgccaca tatcacaagg ctgagatyca 1620
tgctcagcca tctgataaaag agaggsttac ttcygatgca tagtattgat ctacttctgt 1680
aattgtgtgg attcyttaa cgtcttaggt acgatgacag tgttccccga taccatgctg 1740
taaggatccg gaaagaagag cgagagatca aagatgaaaa gtatattgat aaccttgaaa 1800
aaaaacagtg gatcacaaaag tggaacgaaa atgaaagcta ctcatagcgg gggcctaaaa 1860
aaaaaaaagct tcacagtacc caaactgctt tttccaaactc agaaattcaa tttggattta 1920
aaagcctgct caatccctga ggactgattt cagagtgact acacacagta cgaacctaca 1980
gttttaactg tggatattgt tacgtagcct aaggctcctg ttttgcacag ccaaatttaa 2040
aactgttga atggattttt ctttaactgc cgtaatttaa ctttctgggt tgcctttrtt 2100
tttggcgtgg ctgacttaca tcatgtgttg gggaaaggcc tgcccagttg cactcagggtg 2160
acatcctcca gatagtgtag ctgaggaggc acctacactc acctgcacta acagagtggc 2220
cgtcctaacc tcgggctgct tgccgagacg tccatcacgt tagctgtccc acatcacaag 2280
actatgccat tggggtagt gtgtttcaac ggaaagtgt gtcttaaaact aaatgtgcaa 2340
tagaagggtga tgttgccatc ctaccgtctt ttctgtttc ctagctgtgt gaatacctgc 2400
tcacgtcaaa tgcatacaag tttcattctc cttttcacta aaacacacag gtgcaacaga 2460
cttgaatgct agttatactt atttgtatat ggtattttatt ttttcttttc tttacaaacc 2520
atthttgtat tgactaacag gccaaagagt ctccagttta cccttcaggt tggtttaatc 2580
aatcagaatt agagcatggg aggtcatcac tttgacctaa attatttact gcaaaaaagaa 2640
aatctttata aatgtaccag agagagtgtt ttaataaact tatctataaa ctataacctc 2700
tccttcatga cagcctccac cccacaaccc aaaagggtta agaaatagaa ttataactgt 2760
aaagatgttt atttcaggca ttggatattt tttacttttag aagcctgcat aatgtttctg 2820
gatttcatac tgtaacattc aggaattctt ggagaaaatg ggtttattca ctgaaactcta 2880
gtgcggttta ctactgctg caaatactgt atattcagga cttgaaagaa atgggtgaatg 2940
cctatggtgg atccaaactg atccagtata agactactga atctgctacc aaaacagtta 3000
atcagtgaat cgatgttcta ttttttgtt tgtttcctcc cctatctgta ttcccaaaaa 3060
ttactttggg gctaatttaa caagaacttt aaattgtgtt ttaattgtaa aaatggcagg 3120
gggtggaatt attactctat acattcaaca gagactgaat agatatgaaa gctgattttt 3180
tttaattacc atgcttcaca atgttaagtt atatggggag caacagcaaa cagggtgctaa 3240
tttgtttttg atatagtata agcagtgtct gtgttttgaa agaatagaac acagtttgta 3300
gtgccactgt tgttttgggg gggctttttt cttttcggaa atcttaaac ttaagatact 3360
aaggacgttg ttttggttgt actttggaat tcttagtcac aaaatatatt ttgtttacia 3420
aaatttctgt aaaacagggt ataacagtgt ttaaagtctc agtttcttgc ttggggaact 3480
tgtgtcccta atgtgttttag attgctagat tgctaaggag ctgatacttt gacagtgttt 3540
ttagacctgt gttactaaaa aaaagatgaa tgtcctgaaa aggggtgttg gagggtggtt 3600
caacaaagaa acaaagatgt tatggtgttt agatttatgg ttgttaaaaa tgtcatctca 3660
agtcaagtca ctggtctgtt tgcatttgat acatttttgt actaactagc attgtaaaa 3720
tatttcatga ttagaaatta cctgtggata tttgtataaa agtgtgaaat aaatttttta 3780
taaaagtgtt cattgtttcg taacacagca ttgtatatgt gaagcaaaact ctaaaattat 3840
aaatgacaac ctgaattatc tatttcatca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3898

```

986

<210> 1582
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<400> 1582
gcagaaccccc tgaatcctgg aggtcacgc cccagccaa agtaggggga ctggatttca 60
gcccagtaca aacctccag ggtgcctctg accccttgcc tgacccctg gggctgatgg 120
atctcagcac cactcccttg caaagtgtc ccccccttga atcaccgaa aggtcctca 180
gttcagaacc cttagacctc atctccgtcc cctttggcaa ctcttctccc tcagatatag 240
acgtccccaa gccaggctcc cgggagccac aggtttctgg ccttgcagcc aatcgttctc 300
tgacagaagg cctggtcctg ggacacaatg awtgacagcy tcagcaagat cctgctggac 360
atcagcttity ctgggcctgg gacgaggacc cattgggsc tggamaacat caactgggtc 420
cccatTTTTat ttcntgaggt tacantt 447

<210> 1583
<211> 1274
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1234)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

987

<400> 1583

```
gcccangcgg ccgcgagggcg ccgccgccgc cgccgcagcc gccggagccg caatgcctaa 60
aggaggaaga aagggaggcc acaaaggccg ggcgaggcag tatacaagcc ctgaggagat 120
cgacgcgcag ctgcaggctg agaagcagaa ggccaggga gaagaggagc aaaaagaagg 180
tggagatggg gctgcaggctg accccaaaaa ggagaagaaa tctctagact cagatgagag 240
tgaggatgaa gaagatgact accagcaaaa gcgcaaaggc gttgaagggc tcatcgacat 300
cgagaacccc aaccgggtgg cacagacaac caaaaaggct acacaactgg atctggacgg 360
gccaaaaggag ctttcgagga gagaacgaga agagattgag aagcagaagg caaaagagcg 420
ttacatgaaa atgcacttgg ccgggaagac agagcaagcc aaggctgacc tggcccggct 480
ggccatcatc cggaacagc gggaggaggc tgcccgaag aaggaagagg aaaggaaagc 540
aaaagacgat gccacattgt caggaaaacg aatgcagtca ctctccctga ataagtaact 600
gcgacccgtg ggaggagatg ccggggacct gggccgcgct gccaggacct ctgctgtgtc 660
tcgcccaccc tgtgccctgg cgccgctgca acagccctc atggccagga gccccccatg 720
gcctggggcc tcctcttcat cttggcacag aaattgtttg ggggatgggg ggggggactg 780
ggggaggggg agctgctatc tttgagacag aaagrkyag aagagctttc atttgtctgg 840
tagatagata gcatgtaagg ggggtggtgt cccaggaggc agctgctgac aggtttgcta 900
cacacagccc cggactgtgt tgccctgggtg ctcatcaga gaggggctat catctgggag 960
cctgtgcccc tgggtcctcg agggtcattg cttgtccctg gtcagtcctg tctgactgac 1020
ctcagggcct cacctctctg cccttccctg cccggttct actcacctgg ctagggccag 1080
tgccattttt cagccctacc cattgatcat ttcaagaaac ctctgtttac tgtgtggcac 1140
ccaggcaaaa catgctccac aaattcaact tgtatatattg gcagattaaa cttgacatta 1200
tcgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
agggggngg ggnt 1274
```

<210> 1584

<211> 498

<212> DNA

<213> Homo sapiens

<400> 1584

```
gtcttatttt tagaataatt tagacaagca ggtagaaaaa acaatgcact gtgtggcata 60
aaaagaaaaa cggaaggat tcattgtcct kmsmagtttt tctttttatg ccacacagtg 120
cattgttttt tctacctgct tgtcttattt ttagaataat ttagaaaaac aaaacaaagg 180
ctgtttttcc taattttggc atgaaccccc ccttgttcca aatgaagacg gcatcacgaa 240
gcagctccaa aaggaaaaagc ttgggcggtg ccagcgtgc ccgctgcca tcgacgtctg 300
tcctggggac gtggagggtg gcagcgtccc cgctgcacc agtgccgtcc tgctgatgtg 360
gtaggctagc aatatttttg ttaaaatcat gtttgtgact gtaaccattt gtatgaatta 420
ttttaagaa ataaaaatcc tggaagara aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaa aaaaaaaa
```

<210> 1585

<211> 728

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (663)

<223> n equals a,t,g, or c

<400> 1585

988

```

aagctaccaa gatcaacctc tccctttccg ctttgggtaa tgtcatctct gctctagtgg 60
acggcaaaaag cactcacatt ccataatcggg actcaaagct taccaggctc ctccaagatt 120
cccttggtgg caatgccaaag actgtgatgg tggccaacgt ggggcctgcc tcttacaacg 180
tagaagagac tctgaccact ctgcgatatg ccaaccgtgc caaaaacatt aagaacaaac 240
caaggggtcaa tgaggacccc aaggatgccc tycttcgaga attccaggaa gagattgctc 300
ggctcaaggc ccagctggaa aaacgggtcca ttggtaggag gaagaggcga gagaagcggg 360
gggaagggtgg tggcagtggt ggggggtggg aagaggagga ggaggaggga gaagagggtg 420
aggaggaagg ggatgataag gatgattact ggcggaaca gcaagaaaaa ctggagattg 480
agaagcgggc cattgtagag gatcacagct tggttgcaga ggagaagatg aggtgctga 540
aggagaaaga gaaaaagatg gaggacctgc ggcgggagaa ggatgctgcc gagatgctgg 600
gcgccaagat caaggtacca taccctgacc ctcccttagg cccttgccct gtcactgctt 660
tttctttcat caaacaacaa caaaaaacat aaccatatga gggatgatgt ctctcatcag 720
ttttggat 728

```

<210> 1586

<211> 1808

<212> DNA

<213> Homo sapiens

<400> 1586

```

gggtgcgcgg gcaacttccg gtgtgggtga cgagtgggtg ccgaagcagg gggacagcaa 60
gggacgctca ggcggggacc atggcggacg gcggctcgga ggggctgac gggcgcatcg 120
tcaagatgga ggtggactac agcgccacgg tggatcagcg cctacccgag tgtgcgaagc 180
tagccaagga aggaagactt caagaagtca ttgaaacctt tctctctctg gaaaagcaga 240
ctcgactgct ttccgatatg gtatcgacat cccgtatctt agttgcagta gtgaagatgt 300
gctatgaggc taaagaatgg gatttactta atgaaaatat tatgcttttg tccaaaaggc 360
ggagtcaagt aaaacaagct gttgccaaaa tggttcaaca gtgctgtact tatgttgagg 420
aatcacaga ccttcctatc aaacttcgat taattgatac tctacgaatg gttaccgaag 480
gcaagattta tgttgaaatt gagcgtgcgc gactgactaa aacattagca actataaaag 540
aacaaaatgg tgatgtgaaa gaggcagcct ccattttaca ggagttagag gtggaaacct 600
acgggtcaat ggaaaagaaa gagcgagtgg aatttatttt ggagcaaag aggtctctgt 660
agctgtgaag gattacattc gaacacaaat catcagcaag aaaattaaca ccaaatTTTT 720
ccaggaagaa aatacagaga aattaaagt gaagtactat aatttaataa ttcagctgga 780
tcaacatgag ggatcctatt tgtctatttg taagcactac agagcaatat atgatactcc 840
ctgtatacag gcagaaagtg aaaaatggca gcaggctctg aagagtgttg tactctatgt 900
tatcctggct ctttttgaca atgaacagtc agatttgggt caccgaataa gtgggtgaca 960
gaagttagaa gaaattccca aatacaagga tcttttaaa ctttttacca caatggagtt 1020
gatgcgttgg tccacacttg ttgaggacta tggaaatggaa ttaagaaaag gttcccttga 1080
gagtcctgca acggatgttt ttggttctac agaggaagggt gaaaaaagggt ggaaagactt 1140
gaagaacaga gttgttgaac ataataatag aataatggcc aagtattata ctcgataaac 1200
aatgaaaagg atggcacagc ttctggatct atctgttgat gagtccgaag cctttctctc 1260
aatcttagta gttaacaaga ccatctttgc taaagtagac agatttagcag gaattatcaa 1320
cttccagaga cccaaggatc caaataatTT attaaatgac tggctctcaga aactgaactc 1380
attaatgtct ctggtttaaca aaactacgca tctcatagcc aaagaggaga tgatacataa 1440
tctacaataa gggctcttagt gcttttagaaa aaagttaaaa ttggaagtca ttaaaaaaag 1500
actgttataa tgggtgtatat gttgggggttt tttttctaag cttctttgtc ttaaatTTta 1560
aaatagttaa tatgttttgag actccctttg acctttcagt tccccaaagt cattgttaac 1620
tttgcatTTg caattggtgc aaaaatacag atttctgtcg tctgaataca caaaaagttg 1680
tgtcataact taccagata tgtttttcta tcaattgaaa ccttttttagc tactgtttgt 1740
tttcattcaa ctaacaaaca tattccaata ataaaagcag tatatacata aaaaaaaaaa 1800
aaaaaaaaa 1808

```

989

<210> 1587
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (30)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (201)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (341)
 <223> n equals a,t,g, or c

<400> 1587
 aattcggcag agtgcaaccc tcgcttcagn aatgccacca ttgtctgcaa ctcatcggac 60
 ggcagcaact gggggcaaga acaacgggaa gatcacctgt gcttcagccc agggtcagag 120
 gtcaaggtga ggtcaaaggg ggaaagggca ctgggggtga tgtcaagggg agggcccaga 180
 tggaagagag cctggcctgg nacacagtgg ctggccttgt ttgagccatc aggcactgcc 240
 ctggcccatt tccagggcct cctgcctcct ttgacaccct ccctccccac agttcacagt 300
 gaycttttag agtgacaaat tcaaggtgaa actgccagat nggcacgaac tgacttttcc 360
 caacaggctg ggtcaca 377

<210> 1588
 <211> 1486
 <212> DNA
 <213> Homo sapiens

<400> 1588
 gcggacgcgt ggggggcggg gtgtcgtttc ctttcgctga tgcaagagcc tagtgcggtg 60
 gtgggagagg tatcggcagg ggcagcgctg ccgccggggc ctggggctga cccgtctgac 120
 ttcccgtccg tgccgagccc actcgagccg cagccatgtc tggggacgag atgatttttg 180
 atcctactat gagcaagaag aaaaagaaga agaagaagcc ttttatgtta gatgaggaag 240
 gggataccca aacagaggaa acccagcctt cagaaacaaa agaagtggag ccagagccaa 300
 ctgaggacaa ggattttgaa gctgatgaag aggacactag gaaaaaagat gcttctgatg 360
 atctagatga cttgaacttc tttaatacaa agaaaaagaa gaaaaaaaact aaaaagatat 420
 ttgatattga tgaagctgaa gaaggtgtaa aggatcttaa gattgaaagt gatgttcaag 480
 aaccaactga accagaggat gaccttgaca ttatgcttgg caataaaaag aagaaaaaga 540
 agaatgttaa gttcccagat gaggatgaaa tactagagaa agatgaagct ctagaagatg 600
 aagacaacaa aaaagatgat ggtatctcat tcagtaatca gacaggccct gcttgggcag 660
 gctcagaaag agactacaca tacgaggagc tgctgaatcg agtggtcaac atcatgaggg 720
 aaaagaatcc agatatgggt gctggggaga aaaggaaatt tgtcatgaaa cctccacaag 780
 tcgtccgagt aggaaccaag aaaacttctt ttgtcaactt tacagatatc tgtaaaactat 840
 tacatcgta gcccaaacat ctcccttgcat ttttgttggc tgaattgggt acaagtgggt 900

990

```

ctatagatgg taataaccaa cttgtaatca aaggaagatt ccaacagaaa cagatagaaa 960
atgtcttgag aagatatatc aaggaatatg tcacttgtca cacatgccga tcaccggaca 1020
caatcctgca gaaggacaca cgactctatt tcctacagtg cgaaacttgt cattctagat 1080
gttctgttgc cagtatcaaa accggcttcc aggctgtcac gggcaagcga gcacagctcc 1140
gtgccaaagc taactaatth gctaatact gattttgcaa agcttgttgt ggagatgtgg 1200
ctggacaggt ttgccatcag agtggatata ccgttgtatt aaaaaacaaga taaaaaagct 1260
gccaagatth ttggcgagtgt gttggtctga agtccttgca agacgctgat gctcaagctg 1320
ttgacatact cattgcctac tttaacacct gtcagagaaa cgtgatattg ggtaaggagg 1380
tgctttttta aaatcgttca tagacttctg taaaatgcaa gataaattaa agttattata 1440
acagtgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1486

```

<210> 1589

<211> 998

<212> DNA

<213> Homo sapiens

<400> 1589

```

cgttacacat gacaccagtgt cctttgtttt attgggctgtg gctctcttga aggtgtgtgtg 60
ctgcctgagc tgcctggaaaa gcactgacag gtgtttgtcta gaaaagcact cctggagctt 120
gccaccagct tggacttcta gggactttcc tctcagccag gaaggattht gatattcatc 180
agaaatacct ccagaagatt caaggagctgt tagagggtgaa gtaagcctgt gaaggaccag 240
catgggaatc ctatactctg agcccatctg ccaagcagcc tatcagaatg actttggaca 300
agtgtggcgg tgggtgaaaag aagacagcag ctatgccaac gttcaagatg gctttaatgg 360
agacacgccc ctgatctgtg cttgcaggcg agggcatgtg agaatcgtht ccttccttht 420
aagaagaaat gctaattgtca acctcaaaaa ccagaaaagag agaacctgtt tgcattatgc 480
tgtgaagaaa aaatttacct tcattgatta tctactaatt atcctcttaa tgcctgtyct 540
gcttattggg tatttctctca tggatatcaa gacaaagcag aatgaggctc ttgtacgaat 600
gctacttgat gctggtgtcg aagttaatgc tacagattgt tatggctgta ccgcattaca 660
ttatgcctgt gaaatgaaaa accagtctct tatccctctg ctcttggaag cccgtgcaga 720
ccccacaata aagaataagc atggtgagag ctactggat attgcacgga gattaaaatt 780
ttcccagatt gaattaatgc taaggaaaagc attgtaatcc ttgtgaccac accgatggag 840
atacagaaaa agttaacgac tggattctat cttcatttta gacttttggg ctgtgggcca 900
tttaacctgg atgccacat tttatgggga taatgatgct taccatggtt aatgttttgg 960
aagagcttht tatttatagc attgtttact cagtcaag 998

```

<210> 1590

<211> 2122

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1306)

<223> n equals a,t,g, or c

<400> 1590

991

```

tctgcctcat tctccagagg angacaattg agtttccactg atttgggctt accacctact 60
gaccacctcc aggccctcatt tggatttcag accttttcaac ccagtggcat attattagat 120
catcagacat ggacaaggga actgcagggtc actctggaag atggttacat tgaattgagc 180
accagcgata gcgrcggccc aattttttaa tctccacaga cgtatatgga tggtttactg 240
cattatgtat ctgtaataag cgacaactct ggactacggc ttctcatcga tgaccagctt 300
ctgagaaata gcaaaaaggct aaaacacatt tcaagttccc ggcagtctct gcgtctgggc 360
gggagcaatt ttgaggggtg tattagcaat gtttttgtcc agaggttatc actgagtcct 420
gaagtcctag atttgaccag taactctctc aagagagatg tgtccctggg aggctgcagt 480
ttaaacaac caccctttct aatgttgctt aaagggttcta ccaggtttta caagaccaag 540
acttttctga tcaaccagct gttgcaggac acaccagtgg cctccccaag gagygtgaa 600
gtgtggcaag atgcttgctc accacttccc aagacccagg ccaatcatgg agccctccag 660
tttggggaca ttcccaccag ccacttgcta ttcaagcttc ctcaggagct gctgaaaccc 720
aggtcacagt ttgctgtgga catgcagaca acatcctcca gaggactggg gtttcacacg 780
ggcactaaga actcctttat ggctctttat ctttcaaaaag gacgtctggg ctttgcactg 840
gggacagatg ggaaaaaatt gaggatcaaa agcaaggaga aatgcaatga tgggaaatgg 900
cacacggtagg tgtttgcca tgatggggaa aaggggcgct tggttgtgga tggactgagg 960
gcccgggagg gaagtttgcc tggaaaactcc accatcagca tcagagcgcc agtttacctg 1020
ggatcacctc catcagggaa accaaaagagc ctcccacaa acagctttgt gggatgcctg 1080
aagaactttc agctggattc aaaacccttg tataccctt cttcaagctt cggggtgtct 1140
tcctgcttgg gtggtccttt ggagaaaggc atttatttct ctgaagaagg aggtcatgtc 1200
gtcttggctc actctgtatt gttggggcca gaatttaagc ttgttttcag catccgcca 1260
agaagtctca ctgggacct aatacacatc ggaagtcagc cgggnaagc acttatgtgt 1320
ttacctggag gcaggaaagg tcacggcctc tatggacagt ggggcagggtg ggacctcaac 1380
gtcggtcaca ccaaagcagt ctctgtgtga tggacagtgg cactcgggtg cagtcaccat 1440
aaaacaacac atcctgcacc tggaaactgga cacagacagt agctacacag ctggacagat 1500
ccccttccca cctgccagca ctcaagagcc actacacctt ggaggtgctc cagccaattt 1560
gacgacactg aggatccctg tgtggaaatc attctttggc tgtctgagga atattcatgt 1620
caatcacatc cctgtccctg tcaactgaagc cttggaagtc caggggcctg tcagtctgaa 1680
tggttgtcct gaccagtaac ccaagcctat ttcacagcaa ggaaattcac cttcaaaagc 1740
actgattacc caatgcacct ccctccccag ctcgagatca ttcttcamty aggacacaaa 1800
ccagacaggt ttaatagcga atctaatttt gaattctgac catggatacc catcactttg 1860
gcattcagtg ctacatgtgt attttatata aaaatcccat ttcttgaaga taaaaaaatt 1920
gttattcaaa ttgttatgca cagaatgttt ttggtaatat taatttccac taaaaaatta 1980
aatgtctttt aagaaacatt cttttccact tggttaaaaa attaaatata ttttaaagca 2040
ctttaagaat atgaaacttt catatatgtt aaaggattat aatttatgga attaaaaaat 2100
gcagtgtagt ccttaaaaaa aa 2122

```

<210> 1591

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

992

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 1591

```

tttctaatacc tatctgggga gtcctgggcc aggataatat atttgcagat aattctggac 60
cagagacttg gtgcgggggtt aacaccttca tccagattgg gtgccagcat acattttctg 120
gtgggcctta acatccctcc tgccttttagg agaattcaca gaacctactg ttcctttcag 180
atgacctttt ggaaaatagt tccctttgcc aacagaaaca tgccagaagg aatctttctca 240
tcttttatct aactatatgt acagctctcc cctcccttgt ccttgaaagt aggatatagc 300
gaaaggcgag tccaggagct caggaagaag agatgcacta tatgtttaca caattaattc 360
atcccttaat ttaagtcatt ttcattgtgt tgagtttgtc ggttgtgaaa tactttgtcc 420
taagagattt atctttntac agattttcta gaaatgtttt aggttactaa aaacagggtg 480
ggggcaaaact ntgttaaact ggtacaattt tataggtgga aagaaaaaa 529

```

<210> 1592

<211> 1216

<212> DNA

<213> Homo sapiens

<400> 1592

```

ggtgctacct ggctctcctg tctctgcagc tctacaggtg aggcccagca gagggagtag 60
ggctcgccat gtttctgggtg agccaatttg gctgatcttg ggtgtctgaa cagctatttg 120
gtccacccca gtccctttca gstgctgctt aatgccctgc tctctccctg gcccacctta 180
tagagagccc aaagagctcc tgtaagaggg agaactctat ctgtgggtta taatcttgca 240
cgaggcacca gagtctccct gggctcttggt atgaactaca tttatccctt ttcctgcccc 300
aaccacaaac tctttccctc aaagagggcc tgcctggctc cctccaccca actgcaccca 360
tgagactcgg tccaagagtc cattccccag gtgggagcca actgtcaggg aggtctttcc 420
caccaaacat ctttcagctg ctgggaggtg accatagggc tctgctttta aagatatggc 480
tgcttcaaag gccagagtca caggaaggac ttcttcagg gagattagt gtgatggaga 540
ggagagttaa aatgacctca tgccttctt gtccacgggt ttgttgagtt ttcactcttc 600
taatgcaagg gtctcacact gtgaaccact taggatgtga tcactttcag gtggccagga 660
atgttgaatg tctttggctc agttcattta aaaaagatat ctatttgaaa gttctcagag 720
ttgtacatat gtttcacagt acaggatctg tacataaaaag tttctttcct aaaccattca 780
ccaagagcca atatctaggg attttcttgg tagcacaaat tttcttattg cttagaaaaat 840
tgtcctcctt gttattttctg tttgtaagac ttaagtgagt taggtcttta aggaaagcaa 900
cgctcctctg aaatgcttgt cttttttctg ttgccgaaat agctggtcct ttttcgggag 960
ttagatgtat agagtgtttg tatgtaaaca tttctttagt gcatcaccat gaacaaagat 1020
atattttcta tttattttat atatgtgcac ttcaagaagt cactgtcaga gaaataaaga 1080
attgtcttaa atgtcatgat tggagatgtc ctttgcattg cttggaaggg gtgtacctag 1140
agccaaggaa attggctctg gtttggaaaa attttgctgt tattatagta aacatacaaa 1200
ggatgtcaaa aaaaaa 1216

```

<210> 1593

<211> 689

<212> DNA

<213> Homo sapiens

<220>

993

<221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (582)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (620)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (649)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (670)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (680)
 <223> n equals a,t,g, or c

<400> 1593
 ctccaggaaga gtgagatTTTT atatttgaca ataaagtgtt agactccatt tctaaatacc 60
 agacttcaaaa agataagggtt caaaagtgtt ataagaagat attcctTTTT ttgtcctaga 120
 gaacttatTTT tcctgtgaaa atgcctacca caaagaagac attgatgttc ttatcaagct 180
 ttttcaccag ccttgggtcc ttcattgtaa tttgctctat tcttgggaca caagcatgga 240
 tcaccagtac aattgctgkt agagactctg cttcaaatgg gagcattttc atcacttacg 300
 gacttttttcg tggggagagt agtgaagaat tgagtcacgg acttgcagaa ccaaagaaaa 360
 agtttgcagt tttagagata ctgaataatt cttcccaaaa aaactctgca ttcggtgact 420
 atcctgttcc tggtcctgag tttgatcacg tcgctgctga gctctgggtt taccttctac 480
 aacagcatca gcaaccctta ccagacattc ctggggcccg acgggggtgt acacctggaa 540
 cgggctcggg catccttcgt tttgngacca tgatactgtt gnggcgaaca cgcagtccaa 600
 ccaattttcc gaaagtggtn caaatgcttt aaccggaaac accagtaang gaccgaccac 660
 agttccgggn cctgttttgn taaaacggt 689

<210> 1594
 <211> 946
 <212> DNA
 <213> Homo sapiens

<400> 1594
 gccacgcgt ccgctccatt tctaaatacc agacttcaaaa agataagggtt caaaagtgtt 60
 ataagaagat attcctTTTT ttgtcctaga gaacttatTTT tcctgtgaaa atgcctacca 120

994

```
caaagaagac attgatgttc ttatcaagct ttttcaccag ccttgggtcc ttcattgtaa 180
tttgctctat tcttgggaca caagcatgga tcaccagtac aattgctgtt agagactctg 240
cttcaaattg gagcattttc atcacttacg gactttttcg tggggagagt agtgaagaat 300
tgagtcacgg acttgcagaa ccaaagaaaa agtttgcagc atccttcgtt tttgtgacca 360
tgatactgtt tgtggcgaac acgcagtcca accaactctc cgaagagttg ttccaaatgc 420
tttaccgggc aaccaccagt aaaggaacga cccacagtta cggatactcg ttctgggtca 480
tactgctcgt cattcttcta aatatagtca ctgtaaccat catcattttc taccagaagg 540
ccagatacca gcggaagcag gagcagagaa agccaatgga atatgctcca agggacggaa 600
ttttattctg aattctcttt catctcattt tggcggttgc tctattgtac atcagccctg 660
agtagtaact ggtagcttct tctggacaat tcagcatggt aacgtgactg tcatctgtga 720
cagcatttgt gtttcatgac actgtgttct tcattgatgc tgtactcctg aaaatttttc 780
ccacaagggt ggggaaatga atgggaaatg tcgctggtct gtgtggtatt caaagcagta 840
gtatcatgat gagcgtaacg acccttctga cctggtctca cgatctgaaa taataaaagg 900
ctgtgtcatg tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 946
```

<210> 1595

<211> 875

<212> DNA

<213> Homo sapiens

<400> 1595

```
cctacttgca gctcctgcct ttggaaatgg atgacacaga aacaggcctt ctcagtgcc 60
tctgcttaat ctgtggagac cgccagacct tgaggaaccg acaaaagtag ataagctaca 120
agaaccattg ctggaagcac taaaaattta tatcagaaaa agacgaccca gcaagcctca 180
catgtttcca aagatcttaa tgaaaatcac agatctccgt agcatcagtg ctaaagggtg 240
agagcgtgta attaccttga aaatggaaat tcctggatca atgccacctc tcattcaaga 300
aatgctggag aattctgaag gacatgaacc cttgacccca agttcaagtg ggaacacagc 360
agagcacagt cctagcatct caccagctc agtggaaaac agtggggtca gtcagtcacc 420
actcgtgcaa taagacattt tctagctact tcaaacattc ccagtagcct tcagttccag 480
gatttaaaat gcaagaaaaa acattttttac tgctgcttag tttttggact gaaaagatat 540
taaaactcaa gaaggaccaa gaagttttca tatgtatcaa tatatatact cctcactgtg 600
taacttacct agaaatacaa actttttcca ttttaaaaaa tcagccattt catgcaacca 660
gaaactagtt aaaagcttct attttctctt ttgaacactc aagattgcat ggcaaagacc 720
cagtcmaaat grtttaccct tggttaagtt tctgaagact ttgtacatac agaagtatgg 780
ctctgttctt tctatactgt atgtttggtg ctttctcttt gtcttgcata ctcaaaataa 840
ccatgacacc aaggttatga aatagactac tgtag 875
```

<210> 1596

<211> 1257

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

995

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<400> 1596

```

gcccacgcgt cgcgccacgc gtccgcctgg gtgccagcgc cccagaggtc cggggacagc 60
ccgaggcgcc gcgcccgcgc ccccgagctc cccaagcctt cgagagcggc gcacactccc 120
ggtctccact cgctcttcca acaccgcctc gttttggcgg cagctcgtgt cccagagacc 180
gagttgcccc agagaccgag acgccgccgc tgcgaaggac caatgagagc cccgctgcta 240
ccgccggcgc cggtggtgct gtcgctcttg atactcggct caggccatta tgctgctgga 300
ttggacctca atgacacctc ctctgggaag cgtgaaccat tttctgggga ccacagtgt 360
gatggatttg aggttacctc aagaagttag atgtcttcag ggagttagat tccccctgtg 420
agtgaatgc cttctagtag tgaaccgtcc tccggagccg actatgacta ctcagaagag 480
tatgataacg aaccacaaat acctggctat attgtcgatg attcagtcag agttgaacag 540
gtagttaagc cccccaaaa caagacggaa agtgaaaata cttcagataa acccaaaaaga 600
aagaaaaagg gaggcaaaaa tggaaaaaat agaagaaaca gaaagaagaa aaatccatgt 660
aatgcagaat ttcaaaatct ctgcattcac ggagaatgca aatatataga gcacctgga 720
gcagtaacat gcaaatgtca gcaagaatat ttcggtgaac ggtgtgggga aaagtccatg 780
aaaactcaca gcatgattga cagtagttta tcaaaaattg cattagcagc catagctgcc 840
tttatgtctg ctgtgatcct cacagctggt gctgttatta cagtccagct tagaagacaa 900
tacgtcagga aatatgaagg agaagctgag gaacgaaaga aacttcgaca agagaatgga 960
aatgtacatg ctatagcata actgaagata aaattacagg atatcacatt ggagtcactg 1020
ccaagtcata gccataaatg atgagtcggt cctctttcca gtggatcata agacaatgga 1080
ccctttttgt tatgatggtt ttaaaccttc aattgtcact ttttatgcta tttctgtata 1140
taaagggtgca cgaaggtaaa aagtattttt tcaagttgta aataatttat ttaatatatta 1200
atggaagtgt atttatttta cagctcatta aactttttta accaaamara ananana 1257

```

<210> 1597

<211> 941

<212> DNA

<213> Homo sapiens

<400> 1597

```

gcaccacagc gctccagcct ggtcgacaga gtgagactcc atctcaagaa aataaaaaata 60
aagttgttct ctgaagagca aatgtctcat tccagtaatg acccactcag caggaatatg 120
gtggagttca gtccaattca ggtcagccat atccaaaaga ccacaagtca ttactaagtt 180
gagcaaaaaga gttttttatct attagcagaa agggcctctc tggcagcaga gattaaaaaac 240
tggcccaact tcatttccat acttcagggg acagcaaatg gaggatttac ttatctagga 300
cttgaattcc ttctttggga ccaagttaat aaaagaccaa gaaactcctg attaaactgg 360
ataatgaagg attctgtaga cagggctgca cgtatcggct ttgtttgact tctcttttct 420
cagttaacat ctcagagcta gaacattcca cattccccag cagcgtgtgg gggctgacta 480
aagttttaca ttccaactaa aaatcacccct gcttctggct tatctgaatc ccttaccac 540
cccacccac caccctactc ctattttatc agcaccacac taccaggga atactactagc 600
aaattgtgca atggaataaa atccacactt tagattcttg caactgtatc atatgtaata 660
gtatcacttt ttctacattt tggcacaata aataggagta ggggtgggtgg gtgggggtggg 720
taagggtatc agataagcca gaagcagggg gatcttwagt tgggaattgta aacttttagtc 780
agccccaca cgctgctggg gaatgtggat gttctagctc tgagatgtta actgrgaaaa 840
gagaagtcaa acaaagccga tacgtgcagc cctgtctaca gaatccttca ttatccagtt 900
taataaggag tttcttggtc ttttattaac ttgggtcgac c 941

```

996

<210> 1598

<211> 505

<212> DNA

<213> Homo sapiens

<400> 1598

```
gggggtcgctt ttggagcaga gaggaggcaa tggccaccat ggagaacaag gtgatctgcg 60
ccctggtcct ggtgtccatg ctggccctcg gcaccctggc cgaggcccag acagagacgt 120
gtacagtggc cccccgtgaa agacagaatt gtggttttcc tgggtgtcacg ccctcccagt 180
gtgcaaataa gggtgtgtgt ttcgacgaca ccgttcgtgg ggtcccctgg tgccttctatc 240
ctaataccat cgacgtccct ccagaagagg agtgtgaatt ttagacactt ctgcagggat 300
ctgcctgcat cctgacgcgg tgccgtcccc agcacggtga ttagtcccag agctcggtcg 360
ccacctccac cggacacctc agacacgctt ctgcagctgt gcctcggtc acaacacaga 420
ttgactgctc tgactttgac tactcaaaat tggcctaaaa attaaaagag atcgatatta 480
aaaaaaaaar aaaagggcgg ccgct 505
```

<210> 1599

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<400> 1599

```
gaaagtncgg gtccggaatt cccgggtcga cccacgcgtc cggattagtc ccagagctcg 60
gctgccacct ycacgggaca cctcagacac gcttctgcag ctgtgcctcg gctcacaaca 120
cagattgact gctctgactt tgactactca aaattggcct aaaaattaaa agagatcgat 180
attaaaaaaaa aaaaaaaaaagg aaaaaaaaaagg gcggccgtct aagaggatcc aagcttacgt 240
aacgcgtgca tgcgaaggtc atagctcttc tatagtgtca 280
```

<210> 1600

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 1600

```
agcaggaaga ccaatgaaag ttggatcatgt tactgaacgt actgatgctt cgagtgcctag 60
ttcatttttg gacagtgatg aactggaaag gactggaatt gatattgggaa caactggtcg 120
tcttcagtta atggcaagac ttgcagaggg tacaggtttg cagattccgc cagcagcaca 180
gcaagctcta cagatgagtg gctctttggc atttgggtgct gtggcagaat tctcttttgt 240
tatagatttg caaacaagac tttcccagca gactgaagct tcagcttttag ctgcagctgc 300
ctctgttcag ccacttgcaa cacaatgttt ccaactctct aacatgttta accctcaaac 360
agaagaagaa gttggatggg ataccgagat taaggatgat gtgattgaag aatgtaataa 420
acatggagga gttattcata tttatgttga caaaaattca gctcagggca atgtgtatgt 480
gaagtgccca tcaattgctg cagctattgc tgctgtcaat gcattgcatg gcaggtggtt 540
tgctggtaaa atgataacag cagcatatgt acctcttcca acttaccaca acctgtttcc 600
tgattctatg acagcaacac agctactggt tccaagtaga cgatgaagga agatatagtc 660
```

997

```

ccttatgtat atagcttttt ttctttcttg agaattcatc ttgagttatc ttttatttag 720
ataaaaaata agaggcaagg atctactgtc atttgtatgc aatttcctgt taccttgaaa 780
aaataaaaaat gttaacagga atgcagtgtg ctcatctccc ctaaaatagta aatcccactg 840
tatacaaaaac tgttctcttg ttctgccttt taaaatgttc atgtagaaaa ttaatgaact 900
ataggaatag ctctaggaga acaaatgtgc tttctgtaaa aaggcagacc agggatgtaa 960
tgtttttaat gtttcagaag cctaactttt tacacagtgg ttacatttca catttcaact 1020
atgttgatat ttggctgatg gttgagcagt ttctgaaata cacatttagt gtatggaaat 1080
acaagacagc taaagggctg tttggtttagc atctcatctt gcattctgat caattggcaa 1140
gaaagggaga tttcaaaatt atatttcttg atggatcttt ttcaattaat gtatctgtaa 1200
aagtttcttt gtaaatacta tgtgttctgg tgtgtcttaa aattccaaac aaaatgatcc 1260
ctgcatttcc tgaagatgtt taaacgtgag agtctggtag gcaaagcagt ctgagaaaga 1320
aataggaaat gcagaaatag gttttgtctg gttgcatata atctttgtct tttttaagct 1380
ctgtgagctc tgaaatatat ttttgggtta cttcagtggtg tttgacaaga cagcttgata 1440
tttctatcaa acaaattgact ttcatattgc aacaatcttt gtaagaacca ctcaaataaa 1500
agtctcttaa aaaggcmaaa aaaaaaaaaa 1529

```

<210> 1601

<211> 3096

<212> DNA

<213> Homo sapiens

<400> 1601

```

gagagagctc agatggccct ttttaaggggg ctccaagaac caacatcact gctcttttag 60
ataaacctct gccctccact ccttgcttga gtgggttaaa ggaactaaca gttgtccctt 120
taggaggaca aaatgggggtc aagaggacac agaagagttg tatagacca gattgggtcc 180
aaatagttaa tggatgtgtg cacattttct gttcagggat taagaccaga atatcagtgg 240
atgtgttttc cccaccaagt ggcctcttag actagtcatt aacttatgat tagctctaaa 300
gatttcaaat agtggcagac agtgtcttct gaatgtaagt tttgagaaat acgagtctgt 360
cagagcggcc ataagccata aagagtcaat ctcttaatta tatttttcat catgtaaaca 420
agtttcccat ttccctttct tagattgcac cagtgaagga gatgttttgc aaagattcag 480
agaactaatt tttcactgga taagacctga gtaaccacaga cccccaccg tggttctttt 540
cacagccctc gactttgcac ttaaaaaggg atattgtaaa tgaaaggctg cagtgccagt 600
tttaagaaaag aatttctgtg aagtgtgagg actctggagt ctagctcaca taaagagagt 660
gttatataaa aatccgacag ctgaactagg ttgctctttt ttggcaggga gtggggatga 720
gatttgacac caatatgggc aaaattagat aaccttttgg ttaatatata tgattttgat 780
ttggaggcct aatttgtaga ttgtgaaagc agcttttagt ttaacttatt cacagacccc 840
ttataattac catgtttttt ttttcttctt aaatctcttg gttcagcttg tgaatcttac 900
gtgcccgtaa agttgggatg ttgaattggc tcttctttgt tctggcagtg agtcaagtgt 960
ccagcatttt ttcataagtg ttttttaaaa ttgttctcca gcattttatg gctcctccct 1020
cccatgtcct cagacccagc aaaagcgtag aggcagaatt agaggcctct ccaggccagc 1080
tcctctgccc acatgtcata caagggtgtg atttgagcac agtccaraaa tggagacatc 1140
ccacccccag ttgaataatg gcccatcatt gccaaccttg ccaacacgga gagggcagag 1200
atgcactaga agaccttcat cctccccttc ctctgcccc agtcactaca gttggttcta 1260
ttgaagccag tctttaagaa acctgggtta aagacaccag cacttctgct tgctgggctg 1320
gctggacctg tgaagccatg ggcaggtagt gccctcttga gagtcatttt atttggccac 1380
cttcaggtga gactatccat agacacatgc taggataggc cccgctggga gggcagttac 1440
aggagagagt aggtgggtgt gacgtgaggg ctgtgaagga tccagagaca agacttagat 1500
gtttcgttca ttcactcact cattcagtta ctctaaagac ttttcagttt cataaggaag 1560
agtgttgccct gagggccctag ggaatattgg ggaatagaag ggattgagga aacattaata 1620
atagttattc aaaagaccca aatgcttata cttctctctc ccttcttctc tctctgacac 1680
acacacacac acacacacac acacacacac acgtgcacat tcctccctta catgctcatt 1740

```

998

```

tgtgccttaa atgtgcctta taggtaaatc caggatgact gaggaatccc tcgtcactgg 1800
gagatTTTTgt atatattcct ttattattag attgagttgg gtgtggggaa aaatTTTTTT 1860
ctgaaggctc aaaagtgggt tcctaaaagt gagccactat cagatttgca catcaggaga 1920
aaagaaatag ggttacgtcc attaggaaaa tcccagtttg caggagtgc atcacatcaa 1980
aaaaacaacc agccaggatt aaaggtatta taaatcctca tagcggaaca tttctcaggg 2040
caaaggaacc tggctcattt gaagattaat gttccatgcc tttgtggtca aasggtcagc 2100
acttaacaca ggaaaaaact aggtgttggt ttgttttggt attttgga acataaaaatt 2160
caggaatglt ttatttagcc ttggtttcta gaaggaaggg aaataatatt tcttgagcat 2220
ttactagggg gtgtcgtgct gtgctaagta aattttaagt ctttcagttt tatagatacg 2280
gaaaacaagg gtgactcttt accacaggat gaataaagaa ctaagtaata tgggaaatgc 2340
agcaatttct ggactagctg agccgattcc ttctgtgag cacactgtaa gctttcaagt 2400
tctctgggca ggaattacag cacctgtccc ctgcaatggc cctgctgtgt gatgctcatc 2460
gcttcccttc gtgctggagc agtccccag gtgtccatct cctatctttt tgttccaatc 2520
ttctgtgagt tccagctagc aggttttaca tctggggaaa ggaaaaccag gggtttttagc 2580
tctgttctct gctcccatcc ttctgtcacc agctgagtga gaacatgaac tttttgcacc 2640
atgtacccat ggcttacact acttagaaaa tcaccttttc agataaaaca gtttatgagt 2700
tcatagagaa caccagcact ctttgacaaa actgtgagt acccttttta aacaatgctg 2760
agcaggccct gagctataat caacggtgag ctttaatgtc tatgctgaca gttaggtttt 2820
gctctctttt gtaacaggtt acgtagacca gcagtgttta aatctaaata cgttgtgagt 2880
ctgttatctg tcctatcgcg ttttttaaat gactttttat tctttatcat agctaagtaa 2940
ataccaaaaa aaaaaaaaaa ctttgttaga cacttgtact tagtttggga aaaaaaata 3000
aattgaaatt gttatgcttt tgtatttcca ttcttgcga ataaatattt tttcttaaat 3060
agtaagatgt tgcccagtct ttataatctt ggtact 3096

```

<210> 1602

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1602

```

gtgctttgtg ctttgtgcat gtggtaggca gaacactacc atatgtcccc acatacttac 60
actagacctt ggagcaagag caagaacagc aaaagcacag cgcttttgaa cccaaaagac 120
aagctccctt cttcctgcgt tgtccctcca gctscctctg ctgaccaggt ttagcatcat 180
gtgctctgta aaggaggaat tctggagagt ccagtccatt attacagagc tagtactgaa 240
gggtgagttt ggagttaaga ggcaataaat tgataactgg cacagaagcc aaatataaga 300
gtattgacta aataatagct aagtacaaga acacag 336

```

<210> 1603

<211> 1035

<212> DNA

<213> Homo sapiens

<400> 1603

```

gtgcatcggc ttcgagtcag caattctgtc taccttcttg tccctgatgc ctataaatTT 60
catctrgtct ttgcgtgtat gtggggatac catggacaag arccctctga agttcatarc 120
tctgtcctgt cacaccaaag gtagcatctt tggaaagtct gaggccttgc ctagggagat 180
ggattgtata taccagtttg tcacataatg taaggaagag aagggaatgt tgacctttca 240
gcctcagggc aatggcacca gggagtatta tggaaactct taaattcaac ttccagggtat 300
tccttgggtg gtaactagac aatgaatata tacaaggctg acatgatggr attctgtcct 360
caggggtact tcggctcctg gtggaagcat ctagctcagg tgtgtcggta ctgagcctgt 420
gtgagaaagg tgatgccatg attatggaag aaacagggaa aatcttcaag aaagaaaagg 480

```

999

```

aatgaagaa aggtaaaaaa aaaaaaatcc ctcactaatt ttccgtttga cccttatttg 540
gtcctatatg tttttatttt tttcactgta atgacgcayc ccaccccagc tctggctgag 600
gtatttggaa atttggwatg gcaagtggga tacaagcagt ttcctaccta atccaaactg 660
atgaaactta agcaagaccc tgaaaaaatc cttctacatt tctgaagggc actagggctc 720
ccgggagaca gcaaggcagt aggctgatga tttttttttt acagggtattg cttttyccac 780
cagcatttcg gtaaaataact gtgtatgtca cttctccctt ttgaagagcg accaggatta 840
tattctcaag gaagggtgact tggtaaaaaat gtaagggttaa accgttttaa agcatttttc 900
ttttttttaa gcattttacaa aatgccagtt cctaaatgca gtactctgat cttgcctttc 960
agtgccttg ggggccatgt ggatggcttc atcgctaattg tagctcacac ttttgtgggt 1020
gatgtagctc agggg 1035

```

<210> 1604

<211> 2231

<212> DNA

<213> Homo sapiens

<400> 1604

```

cccacgcgtc cggcacagac agcacttcca tatgccatga atagcgagtt ctcaagtgtc 60
ttagctgcac agctgaagca tcactctgag aataagggcc tagacaaaagt gatggagact 120
caagcccaag tggatgaact gaaaggaatc atggtcagaa acatagatct ggtagctcag 180
cgaggagaaa gatttgaatt attgattgac aaaacagaaa atcttgtgga ttcttctgtc 240
accttcaaaa ctaccagcag aaatcttgct cgagccatgt gtatgaagaa cctcaagctc 300
actattatca tcatcatcgt atcaattgtg ttcacttata tcattgtttc acctctctgt 360
ggtggattta catggccaag ctgtgtgaag aaataggaaa gaagaagtta ccattaacca 420
aggatatgag agaacaagga gttaaaagca atccatgtga ctcaagcctt tcacatactg 480
acagatggta tctgccagtc tcttcaaccc tcttctcact ttttaaaatc ttgttccatg 540
cctccagggt tatctttgtc ttatctacca gtttattcct gtgaacttca gattgaacca 600
ttcattgcag cagtagcctt aaaaaggctt ttgtttattt ctttggtttg ttaactagt 660
tcatctatct agagaaacat ttttgtttt aattgctcaa agctgtcgcc gctagtctta 720
tgagctatct actaaaacta tggagaaact ttgtatgtgc acacaaaagt attcaagaga 780
cagtattgct aacatctcat cttaatgtct tttgttattg agaagtttta ggtgcttcaa 840
aacaatataa atggataata gttgttattt ggggaattgt aatgatgttg gtgctgcttc 900
cttctaagag ctcagacaag taaagtatga aacattctta tttcagttag atgggggaaca 960
ttttgctagc ccattagaag cacacagaat tatccttgct ctctaataat tgactttcag 1020
gaataaagtt cagtgtgctg atcattcaca atacagtgga tagcttgata tcttctgttt 1080
tcccattgca gttgatttga gaagatgaag gtttaaatat tgttgaaagt tgcagttttt 1140
taaatgtgtt cttttttctt ctgtgaatat ttagggcaat cgtgtcgcta atagaatatg 1200
tagtagaggg ggtggggagg taaattcctc tgacttgcca aagaaaaaga agggaaccac 1260
agtggatatg ctagcatttt agctgtgcaa agggaggtag tgtgggaaaa gtgtttccat 1320
tctgggaaaa gcccaaaccg aatacgggtc gcagtcaact ccagggtttg ggcttgattc 1380
ctgttgaata atagtttttg gcattctttg tggttaaata aattctttaa tctgcctagt 1440
tttgatgaat tcttttgtga aacttgaaag agaatagaca gtatgacata tagaattaat 1500
acaaaacagt ttaacaacca tttaactgca gtgtaagaaa attggactgt aatcatatcg 1560
ctactggcat ctgttatcta gtatgcattt ctggtgtgta tctgaaagga agacattttc 1620
taccctagat ccaattgcat ttatttatca ataagtgcc ttaaattgaa attatattac 1680
attttacact ttctcaatga atgaacaaat tagtctgtag aatctagcca cctgttttagc 1740
ctagtcatgt gccttgaaca tatatgtgtc ccataatctg gtcctggta cctgtttctt 1800
tatccaaacc tttcaattca tgctacctga ttcatttatt tgacatagat cttaggccca 1860
cttgaactct tttcttgttt atctagcata gcacaaacgt ttttccagtc ttctttatca 1920
acactaatgc ctcttaattg catcagtatt tcctatttga aaatacatct gttccagaaa 1980
aacatttggc attcctgaat aatttccaaa tgtttttaat ccaaagaaaa aggtttaaag 2040

```


1000

```

cttattttccc tttcttatac acacctgaat aaaattgatg tgcattgttt agggatcaat 2100
tacctaactg ttccttggtc tatttatgta taagaatgct ttttaaagca catgtctcat 2160
tttaaattgac gcacaaactg aagatgttaa taaaatttaa gagtaataca atgaaaaaaaa 2220
aaaaaaaaaa a 2231

```

<210> 1605

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<400> 1605

```

gaatttttggc atcaaggaca aaccacacctt catcaaaggg attggagctg gagggagcat 60
cactgggctg aagtttaacc ctctcaatac caaccagttt tacgcctcct caatggaggg 120
aacaactagg ctgcaagact ttaaaggcaa cattctacga gtttttgcca gctcagacac 180
catcaacatc tgggttttgta gcctggatgt gtctgctagt agccgaatgg tggtcacagg 240
agacaacgtg gggaacgtga tcctgctgaa catggacggc aaagagcttt ggaatctcag 300
aatgcacaaa aagaaagtga cgcatgtggc cctgaaccca tgctgtgatt ggttcctggc 360
cacagcctcc gtagatcaaa cagtgaataa ttgggacctg cgccagggtta gagggaaaagc 420
cagcttcctc tactcgctgc cgcacaggca tcctgtcaac gcagcttggt tcagtccccga 480
tggagccccg ctcctgacca cggaccagaa gagcgagatc cgagtttact ctgcttccca 540
gtgggactgc cccctggggc tgatccccga cctcaccgt cacttccagn acctnacacc 600
catcaaggca gcctgggatc ctcgctacaa cctcattggt gtggggccgat acccagatcc 660
taatttcaaa agttgtacc 679

```

<210> 1606

<211> 1677

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1668)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1673)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1001

<222> (1676)

<223> n equals a,t,g, or c

<400> 1606

```
atccttcact aagcctgctt tagtttccac cacctgcttc tgcattcttt taatggctcc 60
ttaggtctcc aggaaagcta acagccaggg agaggatcag tctcttgctg gaccctggca 120
gctttkttga gagcgacatg tttgtggaac acagatgtgc agattttgga atggctgctg 180
ataagaataa gtttcctgga gacagcgtgg tcaactggacg aggccgaatc aatggaagat 240
tggtttatgt cttcagtcag gattttacag tttttggagg cagtctgtca ggagcacatg 300
cccaaaagat ctgcaaaatc atggaccagg ccataacggg gggggctcca gtgattgggc 360
tgaatgactc tgggggagca cggatccaag aaggagtggg gtctttggct ggctatgcag 420
acatctttct gaggaatggt acggcatccg gagtcacccc tcagatttct ctgatcatgg 480
gccccatgtc tgggtggggcc gtctactccc cagccctaac agacttcacg ttcatggtaa 540
aggacacctc ctacctgttc atcaactggc ctgatgttgt gaagtctgtc accaatgagg 600
atgttaccca ggaggagctc ggtggtgcca agaccacac caccatgtca ggtgtggccc 660
acagagcttt tgaaaatgat gttgatgcct tgtgtaactc ccgggatttc ttcaactacc 720
tgccccctgag cagtcaggac ccggtccccg tccgtgagtg ccacgatccc agtgaccgtc 780
tggttcctga gcttgacaca attgtccctt tggaatcaac caaagcctac aacatggtgg 840
acatcataca ctctgttgtt gatgagcgtg aattttttga gatcatgccc aattatgcca 900
agaacatcat tgttggtttt gcaagaatga atgggaggac tgttggaatt gttggcaacc 960
aacctaaggt ggcctcagga tgcttggaata ttaattcatc tgtgaaaggg gctcgttttt 1020
tcagattctg tgatgcattc aatattccac tcatcacttt tgttgatgtc cctggctttc 1080
tacctggcac agcacaggaa tacgggggca tcatccggca tggtgccaag cttctctacg 1140
catttgctga ggcaactgta cccaaagtca cagtcacac caggaaggcc tatggagggtg 1200
cctatgatgt catgagctct aagcaccttt gtggtgatac caactatgcc tggcccaccg 1260
cagagattgc agtcatggga gcaaagggcg ctgtggagat catcttcaaa gggcatgaga 1320
atgtggaagc tgctcaggca gactacatcg agaagtttgc caaccctttc cctgcagcag 1380
tgcgagggtt tgtggatgac atcatccaac cttcttccac acgtgcccga atctgctgtg 1440
acctggatgt cttggccagc aagaaggtag aacgtccttg gagaaaacat gcaaatattc 1500
cattgtaaac aaatcaaagg aaaagaaacc aagaactgaa ttactgtctg ccattcaca 1560
tcccattcct gccttttgca atcatgaaac ctgggaatcc aaatagttgg ataacttaga 1620
ataactaagt ttattaaatt ctagaaagat caaaaaaaaa aaaaaaanaa aanaana 1677
```

<210> 1607

<211> 1209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<400> 1607

```
gctgggaagg accggtgtgc taggagatga tgggggaaag catagtcccc tgtctgtggc 60
accagacact cccgactgtg cgctgactct ccccgcccag ccagcagcct tttccagaga 120
```

1002

```

ggctgtgggc catagcctct gtctgttttc actgcaggac caggcacgaa agttaaaca 180
aaatgaagat tttttctgaa tctcataaaa cagtgtttgt tgtggatcac tgcccttata 240
tggcagaatc ttgcaggcag catgtcgagt ttgatatgct ggtgaagaat agaaccacaag 300
gaatcattcc tttggcccc atactctaat cattgtggac tkgctcagta gaatcttcca 360
kgaatattg tagaataatg tatgatatat ttcttttcaa aaagctggtg aattttattg 420
tgagtgactc tggagcacat gttttaaatt cttggactca agaagaccaa aatttacagg 480
agctaattgg agcattagcc gctgktgggc ctccataatc tcgggcagat ccagagtgtc 540
gcagtattct gcatggcctt gttgcagcag tggaaactct ctgcaaaatt actgaatacc 600
aacatgaggc tcgtactcta ctcatggaga atgcagaacg tgttggaat agaggacgaa 660
taatctgtat tactaatgca aaaagtgata gtcatgtgcg aatgcttgaa gactgtgtcc 720
aggaaacgat tcatgaacat aacaagcttg ctgcaaatc agatcatctc atgcagattc 780
aaaaatgtga gttggtcttg atccacacct acccagttgg tgaagacagc cttgtatctg 840
atcgttctaa aaaagagttg tccccggtt taaccagtga agttcatagt gttcgtgcag 900
gacggcatct tgctaccaa ttgaatatt tagtacagca acattttgac ttggcttcaa 960
ctactattac aaatattcca atgaaggaag aacagcatgc taacacatct gccattatg 1020
atgtggagct acttcatcac aaagatgcac atgtagattt cctgaaaagt ggtgattcgc 1080
atctaggtgg cggcagtcga gaaggctcgt ttaaagaaac aataacatta aagtgggtgta 1140
caccaagggn caaatnaaca ttgtgttttc ttctatttca ggaattacac tattgtactg 1200
gggctttat 1209

```

<210> 1608

<211> 2608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 1608

```

cgnccacgc gtccgcagca gggccaacag tcacagcagc cctgaccaga gcattcctgg 60
agctcaagct cctctacaaa gaggtggaca gagaagacag cagagaccat gggaccccc 120
tcagcccctc cctgcagatt gcatgtcccc tggaggaggg tcctgctcac agcctcactt 180
ctaaccctct ggaaccacc caccactgcc aagctcacta ttgaatccac gccgttcaat 240
gtcgcagagg ggaaggagg tcttctactc gccacaacc tgccccagaa tcgtattggg 300
tacagctggt acaaaggcga aagagtggat ggcaacagtc taattgtagg atatgtaata 360
ggaactcaac aagctacccc agggcccgcga tacagtggtc gagagacaat atacccaat 420
gcatccctgc tgatccagaa cgtcacccag aatgacacag gattctatac cctacaagtc 480
ataaagttag atcttgtgaa tgaagaarca accggacagt tccatgtata ccgggagctg 540
cccaagccct ccattctyag caacaactcc aaccccgagg aggacaagga tgctgtggcc 600
ttcacctgtg aacctgaggy tcagaacaca acctacctgt ggtgggtaaa tggtcagagc 660
ctcccggtca gtcccaggct gcagctgtcc aatggcaaca tgaccctcac tctactcagc 720
gtcaaaagga acgatgcagg atcctatgaa tgtgaaatac agaaccacg gagtgccaac 780
cgagtgacc cagtcaccct gaatgtctc tatggcccag atggccccc catttcccc 840
tcaaaggcca attaccgtcc aggggaaaat ctgaacctct cctgccacgc agcctctaac 900

```

1003

```

ccacctgcac agtactcttg gtttatcaat gggacgttcc agcaatccac acaagagctc 960
tttatcccca acatcactgt gaataatagc ggatcctata tgtgccaagc ccataactca 1020
gccactggcc tcaataggac cacagtcacg atgatcacag tctctggaag tgctcctgtc 1080
ctctcagctg tggccaccgt cggcatcacg attggagtgc tggccagggg ggctctgata 1140
tagcagccct ggtgtatttt cgatatttca ggaagaactgg cagattggac cagaccctga 1200
attcttctag ctctcccaat cccattttat cccatggaac cactaaaaac aagggtctgt 1260
ctgtcctga agccctatat gctggagatg gacaactcaa tgaaaattta aagggaatac 1320
cctcaggcct gaggtgtgtg ccaactcagag acttcaccta actagagaca ggcaaactgc 1380
aaacatggg gagaaattga cgacttcaca ctatggacag cttttcccaa gatgtcaaaa 1440
caagactcct catcatgata aggtctttac ccccttttaa tttgtccttg cttatgcctg 1500
cctcttttgc ttggcaggat gatgctgtca ttagtatttc acaagaagta gcttcagagg 1560
gtaacttaac agagtatcag atctatcttg tcaatcccaa cgttttacat aaaataagag 1620
atccttttagt gcaccagtg actgacatta gcagcatctt taacacagcc gtgtgttcaa 1680
atgtacagtg gtccctttca gagttggact tctagactca cctgttctca ctccctgttt 1740
taattcaacc cagccatgca atgccaata atagaattgc tccctaccag ctgaacaggg 1800
aggagtctgt gcagtttctg acacttggtg ttgaacatgg ctaaatacaa tgggtatcgc 1860
tgagactaag ttgtagaaat taacaaatgt gctgcttggg taaaatgggt acactcatct 1920
gactcattct ttattctatt ttagttgggt tgtatcttgc ctaagggtgcg tagtccaact 1980
cttgggtatta ccttccta atgtcacta gtagtcatac tccctgggtg agtgtattct 2040
ctaaaagctt taaatgtctg catgcagcca gccatcaaat agtgaatggg ctctcttttg 2100
ctggaattac aaaactcaga gaaatgtgtc atcaggagaa catcataacc catgaaggat 2160
aaaagcccca aatgggtggta actgataata gcactaatgc ttttaagattt ggtcacactc 2220
tcacctaggt gagcgcatg agccagtggt gctaaatgct acatactcca actgaaatgt 2280
taaggaagaa gatagatcca attaaaaaaa attaaaacca atttaaaaaa aaaaagaaca 2340
caggagattc cagtctactt gagtttagcat aatacagaag tccctcttac ttttaacttt 2400
acaaaaaagt aacctgaact aatctgatgt taaccaatgt atttatttct gtgggtctgt 2460
ttccttgttc caatttgaca aaaccactg ttcttgtatt gtattgcccc gggggagcta 2520
tactgtact tgtagagtgg tgctgtttaa attcataaat cacaaataaa agccaattag 2580
ctctataaaa aaaaaaaaaa aaaaaaaaaa 2608

```

<210> 1609

<211> 2013

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 1609

```

ggacccagtt tctgaggaag gagaaggcct cagctgccan gatcagtncc acagagaccc 60
tctcggaaga ggagcaggaa gagctaagaa gagaacttgc aaaggtagaa gaagaaatcc 120
agatgctgca agcgagggtcc aagcacatct tgtcaacatg cattgccatg aatttctacc 180
agatgtgctt ttattttagct ttacatatct ctttgaccaa atagtttgtg gggttaacaa 240
aatgaaaata tcttcacctc tattcttggg aaacaccctt tagtgtacat ttatgttctc 300

```

1004

```

ttattttagga aacaccatta taaaaaact tatagtaa at ggggacattc actataatga 360
tctaagaagc tacagattgt catagttggt ttcttgcttt acaaaattgc tccagatctg 420
gaatgccagt ttgacctttg tcttctataa tatttccttt tttcccccctc tttgaatctc 480
tgtatatttg attcttaact aaaattgttc tcttaaatat tctgaatcct ggtaattaaa 540
agtttgggtg tattttcttt acctccaagg aaagaactac tagctacaaa aaatattttg 600
gaataagcat tgttttggtg taaggtagat attttggttg aagacaccag actgaagtaa 660
acagctgtgc atccaattta ttatagtttt gtaagtaaca atatgtaatc aaacttctag 720
gtgacttgag agtggaacct cctatatcat tatttagcac cgtttgtgac agtaaccatt 780
tcagtgtatt gtttattata ccacttatat caacttattt ttcaccagggt taaaatttta 840
atttctacaa aataacattc tgaatcaagc acactgtatg ttcagtaggt tgaactatga 900
acactgtcat caatgttcag ttcaaaagcc tgaaagttaa gatctagaag ctggtaaaaa 960
tgacaatatc aatcacatta ggggaacct tgttgtcttc acttaatcca tttagcacta 1020
tttaaaataa gcacaccaag ttatatgact aatataactt gaaaattttt tatactgagg 1080
ggttggtgat aactcttgag gatgtaatgc attaataaaa atcaactcat cattttctac 1140
ttgttttcaa tgtgttgga actgtaaaat gatactgtag aacctgtctc ctactttgaa 1200
aactgaatgt cagggctgag tgaatcaag tgtctagaca tatttgcata gaggcccaagg 1260
tattctattc taataactgc ttactcaaca ctaccacctt ttccttatac tgtatatgat 1320
tatggcctac aatgttgtat ttgttattta ttaaattgtg attgttttat tattgtttat 1380
gccaaatgtt aactgccaag cttggagtga cctaaagcat tttttaaaag catggctaga 1440
ttactttcag tataaattat cttatgaaaa ccaaatttta aaagccacag gtgttgattg 1500
ttataaaata acatgctgcc attcttgatt gctagagttt ttgttagtac tttggatgca 1560
attaaaacta tgtgctatca catgtgaaaa gcttaataaa ttccatctat cagtagtata 1620
ggtctcaata tttattatga gaccagtggg ctggaaacag cttgttgtag cgaatcaact 1680
ggagtctatg cttaaaaaaa aaaaattttt ttttaacct ccttaaatga ttgcttaatg 1740
gtatcatatt aacatattct aaataagggc ttttaaggcac aggctgttga agcattttct 1800
cagaggagtg gatctgtaga agtctgtctt tctatagaaa tattgtgctt actcaagtgt 1860
taaattatth tttctatgaa ctagtctact tcttaaaatt caaacatatt cttttgatca 1920
cattgtttct tgagcatcct gccctgmyac taacttttca acaaggcaaa atggagtaaa 1980
rwggcaaytt ctttaratga gtgaaaaaaa aaa 2013

```

<210> 1610

<211> 604

<212> DNA

<213> Homo sapiens

<400> 1610

```

ggcagagcgc cgacgcagac cctctcttgc acgccagccc gcccgacccc accatggcca 60
cagttcagca gctggaagga agatggcgcc tgggtggacag caaaggcttt gatgaataga 120
tgaaggagct aggagtggga atagctttgc gaaaaatggg cgcaatggcc aagccctgag 180
atttccttca tactgggcca ggaatttgac gaagtcactg cagatgacag gaaagtcaag 240
agcaccataa ccttagatgg ggggtgtcctg gtacatgtgc agaaatggga tggaaaatca 300
accaccataa agagaaaacg agaggatgat aaactgggtgg tggaatgcgt catgaaaggc 360
gtcacttcca cgagagttta tgagagagca taagccaagg gacgttgacc tggactgaag 420
ttcgatttga actctacaac attctgtggg atatattggt caaaaagata ttgttgtttt 480
ccatgattta gcaagcaact aattttctcc caagctgatt ttattcaata tggttacgtt 540
ggttaaataa acttttttta gatttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaa 604

```

<210> 1611

<211> 979

<212> DNA

1005

<213> Homo sapiens

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<400> 1611

```

cagggaaacca ttgctggaca aggcacagga gccacctcca tttctgagct ctgcaaggga 60
caagaactag agccatcagg ggctgggctc actgtggccc caccceaagc cgtcagcctc 120
cagggatcta caccctgcct tggctgctac agctttttca ctccactgcc ctaggggagt 180
tcagcaacct aatgatctct atctctgaac atctcttcat cccatgctcc aagtccagca 240
acctgcaccc tgggaaccagg agnggaccct acccaggctg ttcttgaact cctgacctca 300
ggngctccgc ctgcgctggc ttcccggggt gctgggatac aggagtgage cactgcgcct 360
ggctgatccc agcacttttc aaatgatgcc gctcaaagcc gtgacttggc ctactttgaa 420
cagcaaactt gttgctgctg ttgtcaacct gaaggcctct caaatgccag cttcaagcag 480
ggtgtgaatt ggccagtgtc agatctcagg agtcctgtgt tgagagtgtg gctttcagct 540
gcggggagct gcacttggtg gggaaagcca ggcaggtcac cctcacagcc agataatgtg 600
gaggtcagaa cccaaggaag ggagtgaagc ctccactccc agtgggggac ctggccaccc 660
atccttgggg acctgagaaa gcgtacttca ccttgggggtg aaggctgggt gggggccagag 720
ggaccagtgc cctcctcagt gcttaggggc agagccacct gcagcaatgg tatctgcata 780
ttagcccttc tccaccttct ttctcccgt gaatcatttc cctcaaagcc caagagctgt 840
cactgcttct ttctccctgg gaagaatgcg tggactctgc ctgggtgatag actgaagcca 900
gaacagtgcc acaccctcgc cttaattcct tgctaggtgt tctcagattt atgagacttc 960
ttagtcaaat atgaaggga                                     979

```

<210> 1612

<211> 504

<212> DNA

<213> Homo sapiens

<400> 1612

```

gaacatagtt ctttccaaca tgtaaggctt gattcatgtg aaataaatcc tttgcaacat 60
cttcttcaca tgaatcagac ctaacatagt tctttccaac atgtaaggta aatacattga 120
ttaactttct cttttccaaa attaggttta aggatttatt tcacaaattt taaaggrgat 180
atgagtaaaa gtttttatct tttcttgact tttctcctg aacacttatg tcttagcaag 240
tggtcaacat gaggatttga acgcctaatt gttggtaaat ggttgaggca tgacaaaaat 300
attaatatcc actgtttacc atcatgttat ttgaaacaaa agtgaccatg tatactatct 360
tgcttgaaga agtctttgac agaaaaagca atatcatgtc atttataaat tttcttggtc 420
taaagaaagc agttatatat atatataaat tatgtaaata aaagttattt tatatcaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaa                                     504

```

<210> 1613

<211> 1650

<212> DNA

<213> Homo sapiens

1006

<400> 1613

```

gagtacggca gcccgtcggc catcagcgtc agcaaaggca gccctgacgg cagccacccg 60
gtggtggtgg cgccctacaa cggcggggccg ccgcgcacgt gcccgaagat caagcaggag 120
gcggtctctt cgtgcaccca cttggggcgt ggacccccctc tcagcaatgg ccaccggccg 180
gctgcacacg acttccccct ggggcggcag ctccccagca ggactacccc gaccctgggt 240
cttgaggaag tgctgagcag cagggactgt caccctgccc tgccgcttcc tcccggcttc 300
catccccacc cggggcccaa ttacccatcc ttcttgcctg atcagatgca gccgcaagtc 360
ccgcccgtcc attaccaaga gctcatgcca cccggttctc gcatgccaga ggagcccaag 420
ccaaagaggg gaagacgatc gtggccccgg aaaaggaccg ccaccacac ttgtgattac 480
gcgggctgcg gcaaaacctc cacaaagagt tcccatctca aggcacacct gcgaacccac 540
acaggtgaga aaccttacca ctgtgactgg gacggctgtg gatggaaatt cgcccgtc 600
gatgaactga ccaggcacta ccgtaaacac acggggcacc gcccgttcca gtgccaaaaa 660
tgcgaccgag cattttccag gtcggaccac ctgccttac acatgaagag gcatttttaa 720
atcccagaca gtggatatga cccacactgc cagaagagaa ttcagtattt tttacttttc 780
acactgtctt cccgatgagg gaaggagccc agccagaaa cactacaatc atggtcaagt 840
tcccaactga gtcattctgt gagggtgataa tcaggaaaaa tgaggaatcc aaaagacaaa 900
aatcaaagaa cagatggggc ctgtgactgg atcttctatc attccaattc taaatccgac 960
ttgaatattc ctggacttac aaaatgccaa gggggtgact ggaagttgtg gatattcagg 1020
tataaattat atccgtgagt tgggggaggg aagaccagaa ttcccttgaa ttgtgtattg 1080
atgcaatata agcataaaa atcaccttgt attctcttta ccttctaaaa gccattatta 1140
tgatgttaga agaagaggaa gaaattcagg tacagaaaac atgtttaaat agcctaaatg 1200
atggtgcttg gtgagtcttg gttctaaagg taccaaaca ggaagccaaa gttttcaaac 1260
tgctgcatac tttgacaagg aaaatctata tttgtcttcc gatcaacatt tatgacctaa 1320
gtcaggtaat atacctgggt tacttcttta gcatttttat gcagacagtc tgttatgcac 1380
tgtggtttca gatgtgcaat aatttgtaca atggtttatt cccaagtatg ccttaagcag 1440
aacaatgtg tttttctata tagttccttg ccttaataaa tatgtaatat aaatttaagc 1500
aaacgtctat tttgtatatt tgtaaaactac aaagtaaaat gaacattttg tggagtttgt 1560
attttgcata ctcaagggtg gaattaagtt ttaataaaac ctataatatt ttatctgaaa 1620
aaaaaaaaaa aaagggcggc cgctcgcgac                                     1650

```

<210> 1614

<211> 987

<212> DNA

<213> Homo sapiens

<400> 1614

```

gctcgtgccg aattcggcac gagtccggcac gaggtccaag ggggtgtgtg ttcacgggaa 60
tgctgagtac cagcccgtt ctccagttta ttccctcaa tgccaggact gcgtgtgcac 120
ggacaagggt gacaacaaca ccctgctcaa cgtcatcgcc tgcacccacg tgccctgcaa 180
cacctcctgc agccctggct tcgaactcat ggaggcccc ggggagtgct gtaagaagtg 240
tgaacagacg cactgtatca tcaaaccggc cgacaaccag cacgtcatcc tgaagcccg 300
ggacttcaag agcgacccga agaacaactg cacattcttc agctgcgtga agatccacaa 360
ccagctcatc tcgtccgtct ccaacatcac ctgccccaac tttgatgcca gcatttgcac 420
ccggggctcc atcacattca tgcccaatgg atgctgcaag acctgcaccc ctgcgaatga 480
gaccaggggt cctgctcca ccgtccccgt caccacggag gtttcgtacg ccggctgcac 540
caagaccgtc ctcatgaatc attgctccgg gtcctgcggg acatttgtca tgtactcggc 600
caaggccag gccctggacc acagctgctc ctgctgcaaa gaggagaaaa ccagccagcg 660
tgagggtggc ctgagctgcc ccaatggcgg ctgctgaca cacacctaca cccacatcga 720
gagctgccag tgccaggaca ccgtctgcgg gctccccacc ggcacctccc gccgggcccc 780
gcgtccccc aggcattctg ggagcgggtg agcgggggtg gcacagcccc cttactgcc 840

```

1007

```

ctcgacagct ttacctcccc cggaccctct gagcctccta agctcgggtt cctctcttca 900
gatattttatt gtctgagtct ttgttcagtc cttgcttttc aataataaac tcaggggggac 960
atgcaaaaaa aaaaaaaaaa aaaaaaa 987

```

<210> 1615

<211> 1487

<212> DNA

<213> Homo sapiens

<400> 1615

```

gcttgtcatg agaaggtggt aaatatccaa aaagaccccc gtgaatctct cggcatgacc 60
gtcgcagggg gagcatcaca tagaraatgg gatttgccta tctatgtcat cagtgttgag 120
cccgaggag tcataagcag agatggaaga ataaaaacag gtgacatttt gttgaatgtg 180
gatggggctg aactgacaga ggtcagccgg agtgaggcag tggcattatt gaaaagaaca 240
tcatcctcga tagtactcaa agcttttgaa gtcaaagagt atgagcccca ggaagactgc 300
agcagcccag cagccctgga ctccaaccac aacatggccc caccagtgga ctgggtcccca 360
tcctgggtca tgtggctgga attaccacgg tgcttgata actgtaaaga tattgtatta 420
cgaagaaaca cagctggaag tctgggcttc tgcattgtag gaggttatga agaatacaat 480
ggaaacaaac cttttttcat caaatccatt gttgaaggaa caccagcata caatgatgga 540
agaattagat gtgggtgatat tcttcttgct gtcaatggta gaagtacatc aggaatgata 600
catgcttgct tggcaagact gctgaaagaa cttaaaggaa gaattactct aactattgtt 660
tcttggcctg gcactttttt atagaatcaa tgatgggtca gagggaaaaca gaaaaatcac 720
aaataggcta agaagttgaa acactatatt tatcttgta gtttttataat ttaaagaaag 780
aatacattgt aaaaatgtca ggaaaagtat gatcatctaa tgaaagccag ttacacctca 840
gaaaaatatga ttccaaaaaa attaaaacta ctagtttttt ttcagtgtgg aggatttctc 900
attactctac aacattgttt atattttttc tattcaataa aaagccctaa aacaactaaa 960
atgatttgta taccacctg aattcaagct gatttaaatt taaaatttgg tatatgctga 1020
agtctgcaa gggtagatta tggccatttt taatttacag ctaaaatatt ttttaaaatg 1080
cattgctgag aaacgttgct ttcacaaaac aagaataaat atttttcaga agttatagtt 1140
gtcttttagt atgtgatact aattaagatt acttttgat tatcactatt taaaagatcc 1200
tagtaatwta ttctttcaaa taccatgtta tttgttacca tcaccgatga atacctccta 1260
ggcttatccc taaaaatgct cgctcagaga attaattata aacttgtttt gtttttagta 1320
agaaatggct aaagctcttt ttttccacaa tcgttagtaa ctgtataaaa actcatgctg 1380
ctccaccagt gggccttgga aaatgcatca agaaggccaa accagcttga ccctggctya 1440
cagacatggt catgaggcga tttaaatttg tgctctgccg ctctgcc 1487

```

<210> 1616

<211> 713

<212> DNA

<213> Homo sapiens

<400> 1616

```

acaccaata atcagtcatg tgtaatatgc acaagtttgt ttttgttttt gttttttttg 60
ttggttggtt tgtttttttg ctttaagtgt catgatcttt ctgcaggaaa tagtactca 120
tcccactcca cataaggggt ttagtaagag aagtctgtct gtctgatgat ggataggggg 180
caaatctttt tcccckytct gttaatagtc atcacatttc tatgccaaac aggaacratc 240
cataacttta gtyttaatgt acacattgca ttttgataaa attaatattt ttgtttcctt 300
tgaggttgat cgttgtgttg ttgttttgct gcacttttta ctttttttgcg tgtggagctg 360
tattcccag accaacgaag cgttgggata cttcattaaa tgtagcgact gtcaacagcg 420
tgcaggtttt ctgtttctgt gttgtggggt caaccgtaca atgggtgtggg agtgacgatg 480
atgtgaatat ttagaatgta ccataatttt tgtaaattat ttatgttttt ctaaacaat 540

```


1008

```

ttatcgtata ggttgatgaa acgtcatgtg ttttgccaaa gactgtaaat atttatttat 600
gtgttcacat ggtcaaaatt tcaccactga aaccctgcac ttagctagaa cctcattttt 660
aaagattaac aacaggaaat aaattgtaaa aaaggttttc tataaaaaaa aaa 713

```

<210> 1617

<211> 3522

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3503)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3507)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3508)

<223> n equals a,t,g, or c

<400> 1617

```

agtccggaat tcccgggttt gntgacgcgt ccgcagcaag gtgcctcgt gtgtcaacac 60
tcagcctggc ttccactgcc tgccctgccc gccccgatac agagggaacc agcccgtcgg 120
ggtcggcctg gaagcagcca agacggaaaa gcaagtgtgt gagcccgaaa acccatgcaa 180
ggacaagaca cacaactgcc acaagcacgc ggagtgcac tacctgggyc acttcagcga 240
ccccatgtac aagtgcgagt gccagacagg ctacgcgggc gacgggctca tctgcgggga 300
ggactcggac ctggacggct ggcccaacct caatctggtc tgcgccacca acgccacct 360
ccactgcac aaggataact gccccatct gccaaattct gggcaggaag actttgacaa 420
ggacgggatt ggcgatgcct gtgatgatga cgatgacaat gacggtgtga ccgatgagaa 480
ggacaactgc cagctcctct tcaatccccg ccaggctgac tatgacaagg atgaggttgg 540
ggaccgctgt gacaactgcc cttacgtgca caaccctgcc cagatcgaca cagacaacaa 600
tggagagggg gacgcctgct ccgtggacat tgatggggac gatgtcttca atgaacgaga 660
caattgtccc tacgtctaca aactgacca gagggacacg gatggtgacg gtgtggggga 720
tactgtgac aactgcccc tggtgcacaa ccctgaccag accgacgtgg acaatgacct 780
tgttggggac cagtgtgaca acaacgagga catagatgac gacggccacc agaacaacca 840
ggacaactgc ccctacatct ccaacgccaa ccaggctgac catgacagag acggccaggg 900
cgacgcctgt gaccctgatg atgacaacga tggcgctccc gatgacaggg acaactgccg 960
gcttgtgttc aacccagacc aggaggactt ggacggtgat ggacggggtg atatttgtaa 1020
agatgatattt gacaatgaca acatcccaga tattgatgat gtgtgtcctg aaaacaatgc 1080
catcagtgag acagacttca ggaacttcca gatggtcccc ttggatccca aagggaccac 1140
ccaaattgat ccaactggg tcattcgcca tcaaggcaag gagctgggtc agacagccaa 1200
ctcggacccc ggcatcgctg taggttttga cgagtttggg tctgtggact tcagtggcac 1260

```

1009

```

attctacgta aacactgacc gggacgacga ctatgccggc ttcgtctttg gttaccagtc 1320
aagcagccgc ttctatgtgg tgatgtggaa gcaggtgacg cagacctact gggaggacca 1380
gccacgcgg gcctatggct actccggcgt gtccctcaag gtggtgaact ccaccacggg 1440
gacgggcgag cacctgagga acgcgctgtg gcacacgggg aacacgccgg ggcaggtgcg 1500
aaccttatgg cagacccca ggaacattgg ctggaaggac tacacggcct ataggtggca 1560
cctgactcac aggcccaaga ctggctacat cagagtctta gtgcatgaag gaaaacaggt 1620
catggcagac tcaggaccta tctatgacca aacctacgct ggcgggcggc tgggtctatt 1680
tgtcttctct caagaaatgg tctatttctc agacctcaag tacgaatgca gagatattta 1740
aacaagatth gctgcatttc cggcaatgcc ctgtgcatgc catggtccct agacacctca 1800
gttcattgtg gtccctgtgg cttctctctc tagcagcacc tcctgtccct tgaccttaac 1860
tctgatggth cttcacctcc tgccagcaac cccaaacca agtgccctca gaggataaat 1920
atcaatggaa ckcagagatg aacatctaac ccactagagg aaaccagtht ggtgatatat 1980
gagacttht gtggagtga aattgggcat gccattacat tgctthtct tgtttgttta 2040
aaaagaatga cgtttacata taaaatgtaa ttactttattg tatttatgtg tatatggagt 2100
tgaagggaat actgtgcata agccattatg ataaattaag catgaaaaat attgctgaac 2160
tactthtggg gcttaaagth gtcactattc ttgaattaga gttgctctac aatgacacac 2220
aaatcccgtt aaataaatta taaacaaggg tcaattcaaa tttgaagtaa tgtthtagta 2280
aggagagatt agaagacaac aggcatagca aatgacataa gctaccgatt aactaatcgg 2340
aacatgtaaa acagttacaa aaataaacga actctcctct tgctctacaa tgaaagccct 2400
catgtgcagt agagatgcag ttcatcaaa gaacaaacat ccttgcaaat ggggtgtgacg 2460
cggttccaga tgtggatthg gcaaaacctc atttaagtaa aaggtttagca gagcaaagtg 2520
cgggtgcttht gctgctgctt gtgccgctgt ggcgtcgggg aggcctcctgc ctgagcttcc 2580
ttccccagct ttgctgcctg agaggaacca gagcagacgc acaggccgga aaaggcgcct 2640
ctaacgcgta tctaggctth ggtaactgcg gacaagttgc ttttacctga tttgatgata 2700
catttcatta aggttccagt tataaatatt ttgttaatat ttattaagtg actatagaat 2760
gcaactccat ttaccagtaa cttattthta atatgcctag taacacatat gtagtataat 2820
ttctagaaac aaacatctaa taagtatata atcctgtgaa aatatgaggc ttgataatat 2880
taggttgatc cgatgaagca tgctagaagc tgtaacagaa tacatagaga ataagagga 2940
gtttatgatg gaaccttaat atataatgth gccagcgatt ttagttcaat atttgthtact 3000
gttatctatc tgctgtatat ggaattctth taattcaaac gctgaaaacg aatcagcatt 3060
tagtcttgcc aggcacaccc aataatcagt catgtgtaat atgcacaagt ttgtthttht 3120
ttthgtthtth tthgtthgth ggthtthtth tthgtthtth gttgcatgat cthtctgcag 3180
gaaatagtca ctcatccac tccacataag gggthttagta agagaagtht gthtctctga 3240
tgatggatag ggggcaaatc tthtccccct thtctgthtth agtcatcaca thtctatgcc 3300
aaacaggaac gatccataac thtagthtth atgtacacat tgcattthtga taaaattaat 3360
thtgtthtth cthtthgagth tgatcgttht gthtthttht tgctgcactt thtactthtth 3420
tgctgttgga gctgtattcc cgagaccaac gaagcgtthg gatactthcat taaatgtagc 3480
gactgtcaac agcaaaaaaa ganctthnaa aataataagg aa 3522

```

<210> 1618

<211> 902

<212> DNA

<213> Homo sapiens

<400> 1618

```

ggccaacat cagtatttht cccccacaac atgtgtaaca cthtthcagth tgtggatath 60
tgatacatta agattthctth ttataagtat tcattthtga tgtgcatata gttattthgac 120
ccctthcaaa tactthttagc caaacattgg ctagaacatc ccaagatath ctgacactgt 180
cctgtthagct tcatattata cthtgcctagth taggtctctta tagaagccct atataattth 240
gaatatgccc actgaatath thtaatagaa agtaacataa agctagthatt caatgtagag 300
tattthcata tgtththtthc agcccgthtth aaattggcaa tgtthtggth atgtthttht 360

```

1010

```

tacttggaaa tgcgtacagc ttggactatt tttttctaaa ttttttagcat tagtccattt 420
ctgctgctaa caattgaatc cagaaatcta ctttctccat cttccactgt tagtgccagt 480
gagcaatact gttgtgcaac aaaaatgtca ctttatctca gtgtgaatga gtagtctaaa 540
ttccctttct accattgatt taaatatata tattggtaag agagactgcc catgtgttta 600
gaatagaatt ttttaaataa aatgatcaac aggtggaatt tgaaatata tcttctacaa 660
aagagatttc tttccctttt atattttgat gattgttttc ttaagattaa gatatgttct 720
tgctctttta taagattatt taaattatgt ttccctctga ttttttttca ccattgtatt 780
tactaagtta ttggatttac atgaaatctg gcactttagg gtgttctttt tctcacagag 840
tatatttaat aaaaatgctg tgtatatara aaaaaaaaaa aaaaaaaaaa agggcgggccg 900
ct 902

```

<210> 1619

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1145)

<223> n equals a,t,g, or c

<400> 1619

```

tcgacccacg cgtccgagcc gagactgcga aggagaacgc agcaagccca ggcgggcggtg 60
gaaaggctgg aggacacacc taaacatgtg gaatcccaat gccgggcagc cagggccaaa 120
tccatatccc cccaatattg ggtgccctgg aggttccaat cctgcccacc caccacctat 180
taatccaccc tttccccccag gccctgtcc tctctcccca ggagctcccc atggcaatcc 240
agctttcccc ccagggtggc cccctcacc tgtgccacag ccagggtatc caggatgcca 300
accgttgggt ccctaccctc ctccataccc accgcctgcc cctggaaacc ctctgtgaa 360
tcccttgggt cctggcatgg ttggaccagc agtgatagta gacaagaaga tgcagaagaa 420
aatgaagaaa gctcataaaa agatgcacaa gcaccaaag caccacaagt accacaagca 480
tggaagcat tctctctctt cctctctctt ttccagcagt gattctgact gaatacaggc 540
cctggaccct tccctcaagt ctccaccagt ctgctctccc atcaagcttc agatgccatg 600
ttgtactggg ggaatgtagc ccttgtgtct cccacccccct acctccacct gagcctcacc 660
ctgctgttga gccctgagtg gctaggggaa atgggaagag gattgccatg gcctggccat 720
cttgtttgct cttggttaga tcatatagct aatgaattag gcaggggagc tattttttga 780
agatgatgaa ctaaattgtt aagacaagtt tgagatctgt aaaatgtgat tttttacttc 840
cacttataat acttgtgatt ggggaggttt gtggaaattc aattatgatg aaaaacctat 900
ctttttttgta atgttggcat acttggggaa ttttagtggca aatacattcc ccagcaggcc 960
ttttgttggg tgcactaact gcaaggttgc tgggaagtag agtccatttg gttgatgagc 1020
tttgactgcg gttttggaac cttacctctc ctcttaggcc caatatgctg tcttgggtcc 1080
tattcaaata aagttatttc tcttggttnc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140

```

1011

acccnnggggg gggcccg

1158

<210> 1620

<211> 2260

<212> DNA

<213> Homo sapiens

<400> 1620

```
acagcaaatg caaagaccca gaggcattgca agggaaagga gataaagtag gcctgggctg 60
cagcgaaaaga ggagagtgat gggaggcagc aggggtggaa gcctcagttt ccacctctat 120
aaagtgggaa taaaaaagct accaacttaa aacaaatggt gagaattcat caagatctag 180
cctgtaaaagc atttgtgctt ggcattgaga aagtgtctgt aaatgttagc atcattccct 240
tttattttatt tatttttttca agacagagtt tcaccatatt ggtcaggcta ttctcgaact 300
cctgacctca agtgcaccgc ctgcctcagc ctcccaaagt gctgggatta caaagcatga 360
gccaccgcac ctggccgagg tactttcttt ctaacaccaa acccagaagg acattgctgc 420
agttccaggc agcactgggtg cagagcaggc ttctcttata tggggcagag agaagggcac 480
agcctgtctc taatagggaag aggttgagct gatctgagca tgcccagttt atgctctcca 540
gactctccaa gcacatgagt cttggcatct ccccgagcac agcaagtaac aggcaggagg 600
agtgttaagc ctgwrctcc atcttcaggg aagaaaacat cccaactaga gaagaaggga 660
caccttcccc tcctaacaaa tgaatgagcg ggcaagtgaag taaatgaatg agtgattctg 720
attggggggg tgcagggatg tcccttcaact caccctcttg tccacagttg caggggctct 780
cattgctgac ttcttgtctg gcctggtaca ctgggggtgt gacacatggg gctctgtgga 840
gctgcccatt gtggggaagg ctttcatccg acccttccgg gagcaccaca ttgacccgac 900
agctatcaca cggcacgact tcatcgagac caacggggac aactgcctgg tgacactgct 960
gccgctgcta aacatggcct acaagttccg caccacagc cctgaagccc tggagcagct 1020
ataccccctg gagtgcttcg tcttctgcct gatcatcttc ggcaccttca ccaaccagat 1080
ccacaagtgg tcgcacacgt actttgggct gccacgctgg gtcacctcc tgcaggactg 1140
gcatgtcatc ctgccacgta aacaccatcg catccaccac gtctcaccac acgagacctt 1200
cttctgcac accacaggct ggctcaacta ccctctggag aagataggct tctggcgacg 1260
cctggaggac ctcatccagg gcctgacggg cgagaagcct cgggcagatg acatgaaatg 1320
ggcccagaag atcaaaataa ttctccgagc ctgctacctg gttgccaaac ttccctagcc 1380
cccaaaaccg agccatctgc caaattccag cctcttttag ctggccccct cagatggaga 1440
ggacatctcc tgggctgggc ccaggtagcc cagcccaccc ctcatgacac agaatacttg 1500
agccactgat ttttcatttc tttttttttt tttctctggc ccctctcag ccacctgagt 1560
tgctctatct gcaagcctga ctctgccagc ctcccctggg agagaggagg tttacccact 1620
ccctgcacgc ctgccgtccc tgccccgctg ggcagccctt cagtgtgggt ggcgttgggg 1680
ccagtgagtt gcctctttcc ctctctgtct ggccccagtg gtctggggag cccccaggca 1740
cacctaagcg tcgtggagca ttgttctgcc acagccctgc atactgaccc cgggaggctg 1800
ggcagggtga cagccccagc caccaccttc agcctagcct gtcccccaag gatggtgaag 1860
ctcagcaggg gtctgagggt agccggccag aagaggctgg aacctcctgc tcaagtctag 1920
acccctactt ctctgctgcc cccaccctgc cagagctgat gtttccaata ccaagatgtc 1980
ttcacagggc acagcccctg cagagcatct tggtcatttg gaagaggaca cggtatcccc 2040
tctggccaga gtatgtcaga gaaggaagag tagggctttt ttgttttgtt tttttttaa 2100
ggtgcttgct tgtttaatgt aaataataga aagccttaat atcttttctg taacacggag 2160
taatatttta atgtcatgtt ttggatgtac ataatatatt tataacaaag cagcaagagt 2220
ctacttaaaa aaaaaaaaaa aaaaaaaaaa aaaaactcga 2260
```

<210> 1621

<211> 1077

<212> DNA

<213> Homo sapiens

1012

<220>
<221> misc feature
<222> (1014)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1028)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1029)
<223> n equals a,t,g, or c

<400> 1621
aaatggctat tggatgaattt tgactgttct gccatgtggg tgaaaaagag aacagactta 60
acgggagcct ttagactgga cccacttac ctgaagcaca gccatcagga ttcagggtt 120
atcactgact accggcattg gcagatacca ctgggcagaa gatttcgctc tttgaaaatg 180
tggtttgtat ttaggatgta tggagtcaaa ggactgcagg cttatatccg caagcatgtc 240
cagctgtccm atragtttga gtcactgggt cgccagggat ccccgctttg aaatctgtgt 300
ggaagtcatc ctgggggcttg tctgctttcg gctaaagggt tccaacaaag tgaatggagc 360
tcttctgcaa agaataaaca gtgcmaaaaa aatccacttg gttccatgtc acctcaggga 420
caagtttgtc ctgcgctttg ccatctgttc tcgcacgggt gaatctgccc atgtgcagcg 480
ggcctgggaa cacatcaaaag agctggcggc cgacgtgctg cgagcagaga gggagtagga 540
gtgaagccag ctgcaggaat caaaaattga agagagatat atctgaaaac tggaataaga 600
agcaataaaa tatcatcctg ccttcatgga actcagctgt ctgtggcttc ccatgtcttt 660
ctccaaagtt atccagaggg ttgtgatttt gtctgcttag tatctcatca acaaagaaat 720
attatttgct aattaataaa ttaatcttca tggccatagc ttttattcat tagctgtgat 780
ttttgttgat taaaacatta tagattttca tgttcttgca gtcacagaa gtggtaggaa 840
agcctcactg atatatatttc cagggcaatc aatgttcacg caacttgaaa ttatatctgt 900
ggtcttcaaa ttgtcttttg tcatgtggct aaatgcctaa taaacaattc aagtgaaaaa 960
aaaaaaaaaa agggccgggc gctctagaag gatcccaact tacgtacgcc tgcnttgcca 1020
cgtcattnnc tcttttcta at aggggtcacc ctaaaattca aattcactgg gccgtcg 1077

<210> 1622
<211> 2377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2355)
<223> n equals a,t,g, or c

1013

<220>
<221> misc feature
<222> (2376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2377)
<223> n equals a,t,g, or c

<400> 1622
ggctcnaaca tcctttttgct gtgacgagct acgggaagaa tctgtatttc acagactgga 60
agatgaattc cgtggttgct ctcgatcttg caatttccaa ggagacggat gctttccaac 120
cccacaagca gacccggctg tatggcatca ccacggccct gtctcagtgt ccgcaaggcc 180
ataactactg ctcagtgaac aatggcggct gcacccacct atgcttggcc accccaggga 240
gcaggacctg ccgttgccct gacaacacct tgggagttga ctgtatcgaa cagaaatgaa 300
gacaagagtg ccttattttcc tttccaagta tttcacagca acactctact tgaagcaact 360
tgggtccagat tgaaaagtgt cctctggstg agtggccact aggccagac ccagcccagc 420
ctgagcccca acaacttttc cctcactgtt ccccaaaaaca tgcaccttgg acttctctaa 480
tagaaaagtc tccaccctta cacaaggaca gaacctcca cccctacccc caacctctag 540
acagacttat acacccctga gtgaggatta catgcccatc ccagtgtcct aggacctttt 600
ccaataacta gccccccagt ggtgaacaga acctcccaaa tttgagttgc acccttccct 660
gtggccttat gagctcagcc tcgctttgag gtacccaccg tcctgtcagc tccttgacct 720
atgagccggg gcctgactag gaaaagtgtg gagttaagga ggaaattagc attccttaat 780
gttttgtttt ggtgtctctga atttcttctt tattatagtc ctatagtttt actcctcagt 840
tcctcaccat catcatcttg tctaagaccc ccattataat attcatgcgc tgctttttca 900
tcaaaacctta ccctgtccta gagatctatg ggcatttggg ggatgataat gagcagcccc 960
tcccagatag aatgtcaata tttgagcagt aggatattgg catttgtag ttaaaggctt 1020
aaatcaaaaag aatgtccaat ggtaggaatt tcaagggtga ggtcagatat ttgagaatag 1080
gggatttttt tgatgtgcct taaattatac caaagattac taattattcc tctttgcca 1140
aaatacttgc atccaagggt ctagtctctg ttgctgtgct ggtcttttagc cccactgctk 1200
gcactgatgt ccctcctttt cacggagacc tatctgaggt acaggatggg gctggcacca 1260
gatgatgtcc caccacagtc cctcacctcc ggcctccaca tgacagaacc aatttacact 1320
caaccatgac ctaccccttc cttggtttct ccctcgatct gtggcccttt ttggatgtat 1380
tcttatctaa caacacaatc cggaaaagact gaattgaata tttatactaa tggttcata 1440
cctttattgc tcaatgatct aattaaaggg atcattgcca catttcatgt ttatatctt 1500
acaatttgtt tagaaaacat ctctgacca tatcagtagc tcgtgttatc tttttatcaa 1560
ctgcttccca gagtcctaaa acaatagaaa ttttggattg aaaagttcag cataaggagt 1620
ttgagtcagt aaaggatggg ataaaggagt cgagatgatt caatgaaaag tatcacaaaa 1680
aagagattga tcaacaagag aaataaaaaa gcccaagagg aagtggtagg ggaagggaatt 1740
taagaacagc aataagtaaa actcttaagt aactccaaaa agaaaatggg acattttgcc 1800
aaagaccact tatacttgag aacatggaag aatttgcctg atactctctt tggggaaaaa 1860
agtctctcct cttttcctca aaccccagta cactcagcct ctctgcccc ccttctcctg 1920
actttgtcct cacttgcttc tgcagtacat tggaaacctga attgaaagaa agtcttcctt 1980
gaataattgg agtttgtctt gagaggcaaa tatagcccca agaatacaca gattcgagga 2040
ccatgtaggt cttttacgta gcccaaatcc ataaattagt ctcacttttt gtatttatcg 2100
tttcatatta aacctctat atcaaatgtt catcatgatt ttgtatgatt tttataacta 2160
ttttattcat tttattagat ttattctaaa attttttaaa ggtaaattct taaactgtgg 2220
aaaccactga aggtgcttat taactgttct cccagatttg tacaagtatt ggatgattcc 2280
ttgagtttac agctgtacaa atagtgtgga aaataaaact tttttaaaaa agaaaaaaaa 2340
aaaaaaaaaa aaaaanaaaaa aaaaaaaaaa aaaaann 2377

1014

<210> 1623
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<400> 1623
 ttgagaagtt ggatgaatat atatatagac acttcctttgg tcacactttt tccccctccat 60
 atggacccag tcgacctgat aaaaagcaac gtatggtaaa tattgaaaac tccaggcatc 120
 gaaaacaaga gcagaagcac cttcagccac agccttataa aagggaaggt aaatggcata 180
 aatatggtcg cactaatgga agacaaatgg caaatcttga aatagaattg gggcaattac 240
 cttttgatcc tcaatactga ttcacaattg agttaaatta gacaactgta agagaaaaat 300
 ttatgctttg tataatgttt ggtattgaaa ctaatgaaat taccaagatg acaatgtcct 360
 ttcttttggt tctaagtatc agtttgataa ctttatatta ttccctcagaa gcattagtta 420
 aaagtctact aacctgcatt ttccctgtagt ttagcttcgt tgaatttttt ttgacactgg 480
 aaatgttcaa ctgtagtttt attaaggaag ccaggcatgc aacagatttt gtgcatgaaa 540
 tgagacttcc tttcagtgtg agagcttaaa gcaagctcag tcatacatga caaagtgtaa 600
 ttaacactga tgtttgtgtt aaatttgcag cagagcttga gaaaagtaca ttgttctgga 660
 atttcatcat taacatttta taatcttaca ctcacttctt gtctttttgt gggttcaaga 720
 gccctctgac ttgtgaagaa tttgctgccc tcttaagagc ttgctgactt gttttcttgt 780
 gaaatttttt gcacatctga atatcgtgga agaaacaata aaactacacc atgaggaaaa 840
 ctaaaggctc ttatttaaaa tctggcattg tattaacatg taattttata ctatgtggta 900
 ttttatacat ttccctcagta gtgatatttg gtaaagcagt tcatacagct tttttctaag 960
 ttccatgaat cttaccaggt gtttaccgaa gtattttaagc agcatctgaa tatttccacc 1020
 cagcaatgtt aattttatcta ggaaagttca gaatttcatc ttcatgttga atttcccttt 1080
 taacttccgt tcatagacat atatgtgact tccaattcga cctctggca agtgagtgtg 1140
 gaagaaaaca gcagttcttt tataattgct tgaaattagg aaagcgctta tttcctagaa 1200
 gcaataaat gtttaagtaa ataaaggcta cattttgctg agtactgttt cagtcaaa 1258

<210> 1624
 <211> 2469
 <212> DNA
 <213> Homo sapiens

<400> 1624
 aaaggtgaga atgcacaaag acagctctgg gttgggtacc acagttttgc ttggtagaaa 60
 gaaaccagtg taggaaagga gacgccacca gacatcttca acagacaaga ttctttctgc 120
 ctttttcaaa agatgctctc tgcagcagta agactataga tagagttgat tggaaatatca 180
 tgtgaccag tatgctactg ctaggcataa ttatcaaaaa ttcatttttc tcattaaata 240
 ttgttaattg ctgcgccat aaagagaagc tagagctcac cagtcttggg ggtgtcctag 300
 accttctct aaagcagctc tgggaagctg gatcatcgaw tctttagcct agacagagtg 360
 tcgctggtaa ataaaggaga cacaggtaac ccagagtggg cagtgatttg cgtggggagw 420
 cacagtggat ctggggcctc tgatactttg yttcckaaaa cagccccag ttttcggcct 480
 gcctatgaga tgatgttcat gtgcttcctt gaaaccaggt ggaaagaaaag gggaaagaatt 540
 aattttctca ttctgttgcg gttgaacgta atgtaatctt aatactgtag cttccttaga 600
 agcccttccc tctttttcat gctgtaaagt caaatatttg atatccttaa cataaatttt 660
 aaaaattaaag gtcattaggr agcaaatgtc tatttccaaa gcaatgagct tgttgtgact 720
 gtgattttat tcttctatag tatttttttc ctcattttta ctgagaggag aaaataatac 780
 tcttttgcaa tatecttagg ttctccccct ccccttggtg ccccttctag tgtcttaaga 840
 ctttgtctta acaagtataa cattacattt tgttggttaa accttttcgaa actgtattca 900
 gtgattcttc caagtttata tgcctctgcac tatttcacta ataaaccctg gctaccacgt 960

1015

```

agcccttgat ctccaagtag tttacctatg caagacctgt gacactctga attcacttct 1020
ctttctttca gaaagtagtc ataaatggag cttaattata aaggtaaaac ttgtctccaa 1080
ccagtttcat tttggccatt tctttttcaa aatgtcagct gttttcctcc aagatttttc 1140
acaaaaacaa tgatcataag tgctggaata tataatactt tgcaggcata aaataaccca 1200
gacatactct catatttctt tgggtgtattt tggttggtaa aacttaccag cattaatgt 1260
aaaaatataat gaggagttaa ttccttacct agaactattt cttcctttta agattcataa 1320
gtaacctttt atttttacag agctacgtat aacttccaca ttacagtcag ggacctgagg 1380
tgtaacttac taagtgaacc ccaaggttat tttatcttgc aaaagaaacc taaaccaaac 1440
taagggcctt acagtttatg gttagactga atcaaaagct ataacctcaa tttttccaaa 1500
aacagcttct gactgcaaaa gcaagtcata cagttgttag gtatgaaata gcactgatca 1560
ggaaatgcat cttcgcagat ggtatttctt tcagaaaaga cttttctact ttaatatata 1620
attaagccat aacagtttca tgctgtggaa agagggtgaa aaggttcatt ttaagagatt 1680
atataatatg aactttccaca tttactgtga aatgtctaac tttgccagtg cttcagcaag 1740
tttttttggg ggggtgatggg gaggggtagt attggtttta gaggtttcaa atctgtgaac 1800
tttgagagagg ggacagttgt tggctctggt atttactagt tttgtagtaa cgttttgcta 1860
gcctgactga cttttcttac tggtttttat gccacgggtc cgaggggact gttcttcttg 1920
ttkggggtgt ctgcggaata gcgtctcgtc ttgtttgtat aggcagtcaa tgtgtgtgac 1980
atgtgtgtcc tttcagtcct gaagcccact gtgtgacaat ggcgtggggg gtggctggga 2040
ggtgggggtgc tgaagcttga agagcatttc tttgctgatt cataacagta tttcccatct 2100
ttgcctgca ggcagggaaa gtgtacagta tttattttgt ttctgtttta ctttaaattt 2160
gtaagtcttt aagtagctta cattgattat tataggggag gacaagtgac ttgtttaaag 2220
ttgtatttag tattctttcc aatttctgta ttttaaaata ttgaaattaa aattgtatta 2280
cttctgtttt gattttttta gcactcagtg tattttttgc tcattttggt tgaaagtata 2340
aatgttgaaa attgtataaa atgcgtcctt gaaagaaaaa gaatctgaat tctatatcca 2400
attctgactt tgttcccttt ttctgctgat tgaatcatgg gaaattattt aaaagtatga 2460
aaaactggg                                     2469

```

<210> 1625

<211> 1281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1224)

<223> n equals a,t,g, or c

<400> 1625

```

gcaccccttt gcaatcagc attttaacag ctggcttttt gagaagcctg tatctttttc 60
ctcttcagta gatacccttc ttcattggtcc tttgcctaata caaacagagg cctttggcct 120
tgaaaatcca tgacaaggcc tcagaaatca gtgttgtgga ggattactcc atgccaccgg 180
agaaactctg gtgaaagaga aacctcgtgg tcttttaggat gttgggattt tragtgaacc 240
tgacctgata gcctcaggat tcagggaaaag gacaatcaga tggcgggtgtt ttccaggggg 300
acgcgccaaa tcatgtggtt tcagacaatt gtgtttgcct ttgtscctcc ctggaaggga 360
ggccaactaa ggggtatcacc aagaagccaa aagagaaata ggcattgagcc tgtgggtttta 420
aactttacag gctgggcaaa ggatttagaa agaccttag catgattttc ctaaaagaga 480
ccttagctgc tccaacctgg tgctgatagc tgctttgttg atctatgctt taaaattttt 540
ctttataatg cccccagatg gctcctggaa ctagtctgta ttgcaaaactg taaaaatccc 600
tcctccccag tgtagatatt taaaccagag taagtgaggg gagacattct gtggtctctg 660
aatgtgcctt cccscctcayc gtgtgttaaa acacaaaagc cgaagttcca tggcrtcatg 720
attccgaggg gctggaggga taggacctac tccacatcta aaggggatct gctttgggct 780

```


1016

```

cgggtcccatt agcgagtgagg ggactccttgc tgtgtgctaa gaggctgcta ggactcacc 840
agtttgaatt ctgggtgggc tcaggaagtt tagagccacg taaaaagctg gtaggcata 900
gtgtgccagg tctttgccag cctgcgtctc cttttgcacc cccaatcca gagtttgctt 960
tcttttgact aaattggctc ctgcaggggg aagggcagaa agctaggccc tctgctctgg 1020
aaagtgcggc tgaggtttcc ggcaagttaa cccttaaaat ggacacccct cagcccgccc 1080
tcccctttgg ccttcccaga atctccttca gtggttgctc tcacacctgt gccataacat 1140
catcttccat gacttggacg ggcacttcct tgacaattcc tattggcatc acacgggcta 1200
caaattatgc tgttttctaa agantttgaa cttttttttt tttcctttgc ttgagacacg 1260
gttcttgctc tgttggccag g 1281

```

<210> 1626

<211> 1355

<212> DNA

<213> Homo sapiens

<400> 1626

```

ggtgagagcg cgcgcttgcg gacgcggcgg cattaaacgg ttgcaggcgt agcagagtgg 60
tcgttgtctt tctaggtctc agccggtcgt cgcgacgttc gcccgctcgc tctgaggctc 120
ctgaagccga aaccagctag actttcctcc ttcccgctcgt cctgtagcgg cgttggttgc 180
actccgccac catgttcgag gcgcgcctgg tccagggctc catcctcaag aaggtgttgg 240
aggcactcaa ggacctcatc aacgaggcct gctgggatat tagctccagc ggtgtaaacc 300
tgcagagcat ggactcgtcc cacgtctctt tgggtgcagct caccctgcgg tctgagggct 360
tcgacacctt ccgctgcgac cgcaacctgg ccatgggcgt gaacctcacc agtatgtcca 420
aaatactaaa atgcgccggc aatgaagata tcattacact aagggccgaa gataacgcgg 480
ataccttggc gctagtattt gaagcaccaa accaggagaa agtttcagac tatgaaatga 540
agttgatgga ttttagatgtt gaacaacttg gaattccaga acaggagtac agctgtgtag 600
taaagatgcc ttctggtgaa tttgcacgta tatgccgaga tctcagccat attggagatg 660
ctgttgtaat ttctgtgca aaagacggag tgaaattttc tgcaagtgga gaacttggaa 720
atggaaacat taaattgtca cagacaagta atgtcgataa agaggaggaa gctgttacca 780
tagagatgaa tgaaccagt tcaactaact ttgcaactgag gtacctgaac ttctttacaa 840
aagccactcc actctcttca acggtgacac tcagtatgtc tgcagatgta ccccttggtg 900
tagagtataa aattgcggat atgggacact taaaatacta cttggctccc aagatcgagg 960
atgaagaagg atcttaggca ttcttaaaat tcaagaaaat aaaactaagc tctttgagaa 1020
ctgcttctaa gatgccagca tatactgaag tcttttctgt caccaaattt gtacctctaa 1080
gtacatatgt agatattgtt ttctgtaaat aacctatttt tttctctatt ctctgcaatt 1140
tgtttaaaaga ataaagtcca aagtcagatc tggcttagtt aacctagaag tatttttgtc 1200
tcttagaaat acttgtgatt ttataatac aaaagggtct tgactctaaa tgcagtttta 1260
agaattgttt ttgaatttaa ataaagtta tgaattttca aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1355

```

<210> 1627

<211> 1188

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<220>

1017

<221> misc feature
 <222> (1167)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1168)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1176)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1178)
 <223> n equals a,t,g, or c

<400> 1627
 cgcttccggc accggccgag gtgcggggtcg cctccagagg tgcgtgggtcg tggcgcgagg 60
 gatcctgagg ctgctccagc agtgcgcgcg cgccgtctcc tggggcggct tgggttagcc 120
 gggagatcct gtgccttcaa accctacgag tccatacttt aaaacaaaat gaagaaagta 180
 aggcttaagg aactagagag tcgcctgcaa caagtggatg gatttgaaaa gcccaagcta 240
 cttctggaac agtatcctac caggccgcac attgcagcat gtatgctcta tacaatccat 300
 aacacttatg atgacattga aaataaagtc gttgcagatc taggatgtgg ttgtggagta 360
 cttagcatcg gaactgcaat gttaggagca gggttgtgtg ttggatttga catagatgaa 420
 gacgcattgg aaatatTTaa taggaatgca gaagagtttg agttaacaaa tattgacatg 480
 gttcaatgtg atgtgtgctt attatctaac agaattgtcca agtcattcga tacagtaatt 540
 atgaatcctc ccttttgggac caaaaataat aaaggggacag atatggcttt tctaaagact 600
 gcttttgaaa tggcaagaac agcagtatat tccttacaca aatcctcaac tagagaacat 660
 gttcaaaaaga aagctgcaga atggaaaatc aagatagata ttatagcaga acttcgatat 720
 gacctgccag catcatacaa gtttcacaaa aagaaatcag tggacattga agtggacct 780
 attcggTTTT ccttttTaaaa gccccgcaa caaaagtcgt ttaaaacctt tttaaaatga 840
 ataaaaaatt ggtttactaa aaaaaaaaaa aaaggggcggc cgctctagag gatccaagct 900
 tacgtacgcg tgcattgcgac gtcattagctc ttctatagtg tcacctaaat tcaattcact 960
 ggccgtcggt ttacaacgct gtgactggga aaaccctggc gttacccaac ttaatcgct 1020
 tgcagcacat ccccttttcg ccagctggcg taatagcgaa gagggccgca ccgatcgccc 1080
 ttcccaacag ttgcgcagcc tgaatggcga atgggacgcg ccctgtageg gcgcattaag 1140
 cgcggtgggt gtggtgggta ccncanngt gaccgntnca cttgcaag 1188

<210> 1628
 <211> 1389
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

1018

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<400> 1628

```

agagcctgtn ctaacctgag attggcagat tcacctaaat attacgtggt tacatgtggt 60
tttntgggga aaatgggtcc atgatactct aaggagagcta atgatgaaat cagattgaac 120
agtgaaggtt tcttttgaag gtaaaccttc ctgagaatgg cttctctctt cctgataaac 180
tgtctttgct ggaaaaactc ctacccgaga ggaagggaagt ggaagagact gatgagatgg 240
accaagtaga actggtggac ttgatccaa atcaggaaag acggcgccac tacaatggag 300
aagcatatga ggatgatgaa catcatccca gaggtggtgt tcagtgtcag acctcttaat 360
gggccagtga ataacactca ctgctggcat ttaatgtgca gtagtgaatg agtgaaggac 420
tgtaatcata atatgtctac tacttgtctt tgtttttgtt ttaataaact atagtagtgt 480
twtaaaaagt taaatgaaga ataaacgcaa atataaaagc tctgattttg ccctgtatgt 540
atgatgactt cagtgtgcaa gatgaagttt aatacctgta aaaactacaa agaagttccc 600
ctagcatttc taggccaac cttgtaattg acttcagcta tgtacgtgga caagcttaga 660
ctgaaatgct aggtatatgt attggcttca gtgtatgacc cttcattgtt aagctatgaa 720
agtaaaactc tgtatttaac tggcaatgag gaaaaaaaaa tttttagtag aagtgttggg 780
ctgtatagtt ctttatatta agtgggattc attgtaatgc ctctgcattt attctgttgc 840
ctcagctggt acttgaagat ggcgtaatat ataatttatc ctgtggtatc agtgataaaa 900
atgatacctt tctgtaggag gggtttatca taatatgtct cttcttgaag gcttgcactt 960
ccagaattgt gtttccttct gctgtgccat tcatatatat atacatatat atatataatc 1020
ttgaccagtc ctggtcattt gctccccctc ttgtctgtgg accatgataa gcccaagtag 1080
tgacttcaga gctgggtaac agaaattaaa gtgaaaagac ctttacgtgg agaatttgca 1140
tgcgtaatat aggaagggtg tctttaggta tgttacagga ttactttaaa ccatattgact 1200
ttcgctccaa agttatgttg gtagtatagc aaattatgat gaatagcttt aattgtatgt 1260
ttaaaagtct catatgttca catgcttaaa tctgggtatc agaatttaag caattcttga 1320
aatgtattgt ctcttaata tactaattac aaagcatctc caatgtgtgt caaaaaaaaaa 1380
aaaaaaaaag                                     1389

```

<210> 1629

<211> 621

<212> DNA

<213> Homo sapiens

<400> 1629

```

atggagaagg tccaggacac gtgggtgggg gaagctgagc gctgagacca agggctaaaag 60
ctgggagact gaaaaaatgc agaccgccgg ggcattattc atttctccag ctctgatccg 120
ctgttgtacc aggggtctaa tcaggcctgt gtctgcctcc ttcttgaata gccagtgaa 180
ttcatctaaa cagccttcct acagcaactt cccactccag gtggccagac gggagttcca 240
gaccagtgtt gtctccccggg acattgacac agcagccaag ttatttggtg ctggggcagc 300
cacagtgggt gtggctgggt caggggctgg catttggaacc gtgtttggca gcttgatcat 360
tggctatgcc aggaacccgt ctctcaagca gcagctcttc tcctatgcca ttcttggctt 420
tgccctgtct gagggcatgg ggcttttctg tttgatggtc gccttcctca tcctcttcgc 480
catgtgaggc tccatggggg gtcaccggcc tgttgctact gcaactccac accattcttg 540
gtgctggggg gtgttaagct ttaccattaa acacaacgtt tctctaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa a                                     621

```

<210> 1630

<211> 1158

1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (888)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<400> 1630

```

gaattcggca cgagcacaca gtagcgcaaa ccactttcct tcccaaagca agacatcaaa 60
gggacagaaa gctggcactt ccctgagaaa gacgtttcta gtgaagggaa cattctgttg 120
ttaattagg ggaggtatca ttgtctacgg ccccatctca cagcccacag cttttcctcc 180
aagggacttg tagccaccat cctgccctct gccacagctt acctctgatg tttcagaggg 240
agagaaaagg ttccaaacag cggactgggt aaattttccc aaaacttggg tctaaaaagg 300
gaaataaatg tttgaaatca taactttttc cctctcacag tcattttctc ctctctcaag 360
ctcccttttg tggtcacttc atattttacc agtctcaatc ctaatatgtg tctgataagt 420
cagttgttcc cgtataaatg aaagggtttcc atagataaaa ttacattttc ctctcatgaa 480
tcacacttat gcattataga gttgatcaat aaaaactctt caagattcct tccactgtag 540
attcccaaaa gccccacaga agaggaggga gggaaataag acagcagact cccaaattta 600
gccttttaac actcettccc tttgtgccag caggtccaat agaacggaat gtttcattca 660
atccagtgcag ctagttagca aaaggcagga acacaaaagc aactgaacct tccaggtgct 720
ttkgatgcag ctagttagca aaaggcagga acacaaaagc aactgaacct tccaggtgct 780
taatatttaa agatccttaa tacttgccagc agcattagaa agagaattag tgtaaaactc 840
ccaggtattg aaccargact aagcactctt attcccagtg aactgtcnca acaaacctct 900
gggataagag ctattattac tcccatttta tagaccagaa caatgaanct actcccagag 960
gcagacttac ttggttcgga ggaccagcat ggcactgtcc ctccgatoct gccacagagc 1020
atgcaaaaag gcaatggcgg cacgatgcag canggggtggg caccagtatc gatcttgctg 1080
ttgggaatca atcagctcca gcactgcatg gagacagctc cacatcccaa ggctgaattc 1140
ctgcaagaag ggacangt                                     1158

```

<210> 1631

<211> 679

<212> DNA

<213> Homo sapiens

<400> 1631

1020

```

agcctgggtg atggagcgag gcttttctca aaaaagaaaa aaaatatata gcatataaca 60
tacaaaatga gtttatcaac tgtttggtat tggttaagtca gcagtgggct attggtgggt 120
aagttttggg ggagtcaaaa gttacatgca aattttttac tgtgcggggt gtcagcatcc 180
ctaaccocat gttgttcaag ggtcaactgt agtttaaaat gactcctgtc tcaaaaaacc 240
aaaggataac ctttaaggga ttggttaactt tgactcaaaa ctgctttgta atcttttcac 300
aatgtactga aaagtgtggc tagttatggt tgatccacat tctagagaaa tttgtagggt 360
ttaatttctt ttctcttggt cctctcttca tgtataatgg ttgcttttaa cagctgttcg 420
ctgatgtggc cctgctctgt cccagtctag cagctttagt gtatggaaaa attgaactag 480
gaattgagtt ttgaagaaat aaagggtgtaa gagcaaacat tcaacagttg ctgtccccag 540
taatgaagtt catacagaca aaagatggca tgtcactgta catcatacct tgcaataaat 600
attctgttaa attgtgctgg tgcaatttaa catgcttttg tcaaagtaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa

```

679

<210> 1632

<211> 4601

<212> DNA

<213> Homo sapiens

<400> 1632

```

gtcagccctc gcgctggggg cgcaggaaac aatagaggcc gcgcgcacag agcgagctct 60
tgcagcctcc ccgcccctcc cgcaacgctc gaccccagga ttccccggc tcgcctgccc 120
gccatggccg acaaggaagc agccttcgac gacgcagtgg aagaacgagt gatcaacgag 180
gaatacaaaa tatggaaaaa gaacaccctt tttctttatg atttggtgat gacccatgct 240
ctggagtggc ccagcctaac tgcccagtgg cttccagatg taaccagacc agaagggaaa 300
gatttcagca ttcactgact tgtcctgggg acacacacat cggatgaaca aaaccatctt 360
gttatagcca gtgtgcagct ccctaagtat gatgctcagt ttgatgcgtc aactacgac 420
agtgagaaag gagaatttgg aggttttggg tcagttagtg gaaaaattga aatagaaatc 480
aagatcaacc atgaaggaga agtaaacagg gcccgttata tgcccagaa cccttgatc 540
atcgcaacaa agactccttc cagtgatgtt cttgtctttg actatacaaa acatccttct 600
aaaccagatc cttctggaga gtgcaaccga gacttgctgc tccgtggaca tcagaaggaa 660
ggctatgggc tttcttgga cccaaatctc agtgggcact tacttagtgc ttcagatgac 720
cataccatct gcctgtggga catcagtgcc gttccaaagg agggaaaagt ggtagatgag 780
aagaccatct ttacagggca tacggcagta gtagaagatg tttcctggca tctactccat 840
gagtctctgt ttgggtcagt tgctgatgat cagaaactta tgatttgga tactcgttca 900
aacaatactt ccaaaccaag ccactcagtt gatgtcaca ctgctgaagt gaactgcctt 960
tctttcaatc cttatagtga gttcattctt gccacaggat cagctgacaa gactgttgcc 1020
ttgtgggatc tgagaaatct gaaacttaag ttgcattcct ttgagtcaca taaggatgaa 1080
atattccagg ttcagtgggc acctcacaat gagactatct tagcttccag tgggtactgat 1140
cgcagactga atgtctggga tttaagtaaa attggagagg aacaatcccc agaagatgca 1200
gaagacgggc caccagagtt gttgtttatt catggtgggc atactgcaa gatatctgat 1260
ttctcctgga atcccaatga accttgggtg atttgttctg tatcagaaga caatatcatg 1320
caagtgtggc aaatggcaga gaacatttat aatgatgaag acctgaagg aagcgtggat 1380
ccagaaggac aagggtccta gatatgtctt tacttggtgt gatttttagac tccccctttt 1440
tcttctcaac cctgagagtg atttaacact ggttttgaga cagactttat tcagctatcc 1500
ctctatataa taggtaccac cgataatgct attagcccaa accgtgggtg ttttctaaat 1560
attaataggg gggcttgatt caacaaagcc acagacttaa cgttgaaatt ttcttcagga 1620
atthttctagt aaccaggtc taaagtagct acagaaaggg gaatattatg tgtgattatt 1680
tttcttctta tgctatatcc ccaagttttt cagactcatt taagtaaagg ctagagttag 1740
taaggaatag agccaaatga ggtaggtgtc tgagccatga agtataaata ctgaaagatg 1800
tcacttttat tcaggaaata gggggagatt caagtcgtat agattcctac tcgaaaatct 1860
tgacacctga ctttccagga tgcacatttt catacgtaga ccagtttctt cttgggttct 1920

```

1021

```

tcagttaagt caaaacaaca cgttcctctt tccccatata ttcatatatt tttgctcggt 1980
agtgtatttc ttgagctggt ttcattgtgt ttatttcctg tctgtgaaat ggtgtttttt 2040
tttttggtgt tgggtttttt tttttttttt ttaacttggg accaccaagt tgtaaagatg 2100
tatgttttta cctgacagtt ataccacagg tagactgtca agttgagaag agtgaatcaa 2160
taacttgat ttgttttaaa aattaaatta atccttgata agagttgctt ttttttttta 2220
ggagttagtc cttgaccact agtttgatgc catctccatt ttgggtgacc tgtttcacca 2280
gcaggcctgt tactctccat gactaactgt gtaagtgcct aaaatggaat aaattgcttt 2340
tctacataac cccatgctga tgggtttttat ttagtataaa acatccatca aacaccagtc 2400
tctggcttct agaagagtcc ttcagatgac agttgtgtgc catggtcttt gactatcaag 2460
agcagaatta aatgtaatag tcccagagct gtagaaaaga actttactcc tcccagga 2520
aagtgaaga cataaacac tgaatcagag gtggcacaga ttagtctttg ataaggtaac 2580
gtttctttga agtctgtctg tagagaacta catggacttc caagagtgtc aaaggcagtg 2640
tggtagagag aatttaaggc aagattttaa tttggaaaag gtgcttgaa cttttctcag 2700
aggttttatt tccccagtat gtttttccact ggggccttta cttaggttag aaataatagg 2760
ctttgaaggc ctctatcacc agatgcaata accagataaa attcctgttt tttcccaatc 2820
gcttagtttt ttgttggtgt tgttttttaa ctgagtagat cattctgacc cagaactact 2880
ttcatgaggt aagatctttg ggaaaatctg aatagcgtta accattagat tcaaactctca 2940
aatggtttct tttcaagtct agttgtttta gagtatagtg agaaatacct tgacacaatt 3000
ttaagagtaa actatatggg tcagcatatc cttgaacaaa aagtagactt tgtaaaagta 3060
ttcatttaaa ttctaacact cgtggcacaa aagaatggaa attgtaaacc catgtaatgg 3120
aaattggcta tctttttgac cccacatgtg cccctcaaaa atgttttttg tttgggtcaa 3180
cacaaggcaa gatacattct ttaaaatact cccagatgtg tccatacatt catcctttac 3240
tcagtgcata tgtgaggggt gttgctggaa gacaggaggc tcatctttcc tttccttggg 3300
gcattgagat cagtatcaac agcagatgaa atagaatcca gcaaagagtt gacatgttct 3360
gcctccggcc aactctagaa tctttttaag caggctcagcc agtatttgca acttccacag 3420
gatgaattgc ttgccaaagt tctggcactc ttgtctgggt ggaagagtac atccaaaggg 3480
tacttagtga tcttttgcta agaagttttt tgctgtttcc gggttacaga tttggccata 3540
tatttctaaa cagcccttg agactgtgtc tccattccac ctgcctgaga agtgggagca 3600
tcarcctgtt ccaggctctt gggtagtagc atagccttaw aagtagagag ccattttcca 3660
tgtgtttttg gataagcaca atttgaaaat catttcccaa atcctctttt tgtttttgat 3720
tctaaggtaa aattttccct aagccctccc accatccctt cagccagtat tagatgagat 3780
ttgtatagca gcagaaactg acttataagt agagagctct tcagcaagac tgagccttag 3840
ctgttccatc tctttgttct tctgttctg gagttgcacc ccatttctta actgcctctg 3900
gcgttcttcc atttcttcca gctgttctct catgagatgg ccaagaacat ttctaattgag 3960
ccaaacaata aaaactcaca ttgtccactc ttacttataa aacacttttt tgttcattgt 4020
ttaatcttga tagcagtatt gaggtctggt tttatatgat aggttatgaa acaggttcaa 4080
agaagttgtg tcttggaaaa aaagtgacaa tgcttttgaa aatgatgacg aaaaaggcat 4140
cttgtctggt aaccacagct tgctttaata gaatcctggg aggggtgattg ggacttttta 4200
gtattacaac cttagtgtca ttgaggagga ttttgggtcta gttagtgggc tgagtttcat 4260
atacctctcc ctccatgtgc aggtttgtta agataattgg tagtttttaa taatataaaa 4320
tacttaagtt gaaatacaaa agtgtggcaa caattattaa atattggcta gaattctagg 4380
agagttacac aactagtgga agtccatgtt tagaaaataa atggccttgt taaggaaaag 4440
tttttggtgc caaagctcct taaagtcaga gagatttcta cctgggtactt aacatcatat 4500
ggaaattgat gcttttagtga ggggtgtggc taccctattg tcaatttccg gcatcctttt 4560
ttcttcttta tttttgtata gagacaggtc tcgctatggt g 4601

```

<210> 1633

<211> 376

<212> DNA

<213> Homo sapiens

1022

<400> 1633

gagaagacga cagaagggga ggatgggttaa ctctgccgc atcctttttc ttgtgttcac 60
 gtggcattct ctaaccacagg gcagtgggttc cttcccaggc catgcacaga ggctgggtgc 120
 ctgccagacc cacggagggt tcgcgaagga aggggcaccc tccttcttga gctgcaagct 180
 ttagctgagg cagtaagtca cacagtagtt agttcagcct gggctggcac ataagtcccc 240
 agtgtccctg ttgagagggg aaagttgcct gctgggttgaa aaactggctt ttcctttctc 300
 gctgcctaata ttcactctca gactgaggca ggtaactggg gctccactgg gtcactctga 360
 gagggttgtg gctctg 376

<210> 1634

<211> 3643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3628)

<223> n equals a,t,g, or c

<400> 1634

gagataatta ctgataggca gtctggaaag aaaagaggct ttggctttgt tacttttgat 60
 gaccatgatc ctgtggataa aatcgatttg cagaaatacc ataccatcaa tggtcataat 120
 gcagaagtaa gaaaggcttt gtctagacaa gaaatgcagg aagttcagag ttctaggagt 180
 ggaagaggag gcaacttttg ctttggggat tcacgtggtg gcggtggaaa ttctggacca 240
 ggaccaggaa gtaacttttag aggaggatct gatggatatg gcagtggacg tggatttggg 300
 gatggctata atgggtatgg aggaggacct ggaggtggca attttggagg tagccccggt 360
 tatggaggag gaagaggagg atatggtggt ggaggacctg gatatggcaa ccagggtggg 420
 ggctacggag gtggttatga caactatgga ggaggaaatt atggaagtgg aaattacaat 480
 gattttggaa attataacca gcaaccttct aactacgggc caatgaagag tggaaacttt 540
 ggtggttagca ggaacatggg gggaccatat ggtggaggaa actatggtcc aggaggcagt 600
 ggaggaagtg ggggttatgg tgggaggagc cgatactgag cttcttcccta ttgccatgg 660
 gcttcaactgt ataaatagga gaggatgaga gccagagggt aacagaacag cttcagggtta 720
 tcgaaataac aatgttaagg aaactcttat ctacgtcatg cataaatatg cagtgatatg 780
 gcagaagaca ccagagcaga tgcagagagc cattttgtga atggattgga ttatttaata 840
 acattacctt actgtggagg aaggattgta aaaaaaatg cctttgagac agtttcttag 900
 ctttttaatt gttgtttctt tctagtgggc tttgtaagag tgtagaagca ttccttcttt 960

1023

```

gataatgtta aatttgaag ttccaggtga catgtgaaac cttttttaag atttttctca 1020
aagttttgaa aagctattag ccaggatcat ggtgtaataa gacataacgt ttttccttta 1080
aaaaaattta agtgcgtgtg tagagttaag aagctgttgt acatttatga ttttaataaaa 1140
taattctaaa ggaaattgtg taattataga ctttttattt taaataagtt aaggagtggtg 1200
tagtataatt aagggtccgtt gcaaagctgt tgttatattt gtataagata aatgctgggtc 1260
agatgtaagt gtgttgtctg caattcatca ggattaaatt atgtagataa cttaagggat 1320
atctctgcaa ggagaaacac ctttttagat ctttttagatg ctgcttcttc aatgcaagga 1380
aaggaaataa cccagcgcag gtactcttca gggacacagg tctagtacaa gagaactctt 1440
gacggctact aagttcagcc agtcttaaaa aactgtgctg tttctacaaa actttaacta 1500
cagtagttta taaggatgcc aacgaaagct gaggggtgtg agcaaaatag ttctaagctt 1560
cagttaaact tcttttaggtg agatcttatt tacttttctt ttcttaattt tcttccctaa 1620
aagataaact aatactctta aatgggtcttt cagtatagtg gttcttacgt agtttaacat 1680
agctataaat tgagtttaac aatttataaa ctcaagagaa taatttttat aaacctgtt 1740
ttccaatctg tcatctactt aaattatttt gggtgttttt cctttttttt ccttcttttc 1800
ccacccctc cccctccatg tgaagatttg ggtgcttaac atatcatttt tttccctgcc 1860
ggaatttttag cattgatatg aaccatggac aagtatatct tgctgccaca aagactgtaa 1920
agtgtctcat ttcaacagct gaggcaagcc aagtgatcat taataaagct tttcttggtt 1980
ccttcagtgg tgttggtagt aaaatggtag gtaaaagtta ggctgcaagt tcaataaatc 2040
atgagatttc ccatcgttac acccttgtgt attcacattt cttggatcaa acatttttag 2100
tgaactaggg gtttttatta aagacatttg ttgtatttat gggtgtaact gtacatgctt 2160
atcaggatga gactgaaaga aggtagggca aaaatgggtg aatctatttt cagatagtag 2220
ttcatacttg agtgaagtgt cttgtctgca ttatgaagcc tggatgtat ccagtactaa 2280
ataggtgggt taaatgtggt aattctagtt cagtgtctta ccctgaagag aaagttgtag 2340
gttggtgtgt gaaattcatc ccttagatat gatcagtttg attgcccggc tttattgcct 2400
ttacaggaat gtgatactca gggcttactc tatacaccaa tgagtcttct ttgatcctaa 2460
gaccaccact gaagttgttt aggttctttt ggacaaacat gataaacttc ttcagatact 2520
ttttttttcc tttggcagga aggtgtcttg ctgcaggtaa ctaatgaaga agtgggtcaac 2580
cacagagtct tcaagaaata agaaattctg taccatctga aagtagttct tgttggtgcc 2640
ttcattttaa aagcactctt taaaataaaa gggaaatgtt ttctgataaa acaaacattt 2700
agttgaggtt cttgatataa aacaattaca aaatgagtgt tgtttgtaaa acagtaacat 2760
caaattggct agagagataa atgtatcatg ttttaattaa ggttttgtga gtagacagat 2820
tacaattcta ttttaatat aaagtttata aaataaatac tttttgtatc caaatacttg 2880
gtgtaatgtt tacacataaa atgtgtgaat cttgttctat aaatatttgg ttgtctaaaa 2940
gatcaccatc ccctaaattt taaaagcag tttcacaaag ctatgcatat tttaatatta 3000
acaggtaaat gagaagagca ttgtggacat tattggctgt ccccaataaa atgctgttca 3060
ttatgcactg tatattcagc gtttgagtac tctaaagtt tctggcttta cttttacgtt 3120
tagcaatact ggtggcattt tgaaaatcat ggattttaaa ggtaaacgg ctggagtggt 3180
ccagattaag tggctttgca gaagcactga ggtttacaat atgtgctaga ttgtcaaagt 3240
tcaattagtt ttattgtggt ttacactgag taaatgaata tcagtgttgc tttttaaatg 3300
tgtttatttg gacatttatc tgaattaga aaacaaaaa gaccagggtt atttgtttct 3360
atgataattt gttttggttt tgataatgtg aggtatctaa caggtaagtc aaatttaaca 3420
gcaggtaaca catagaaagc agctttctgt ttgaaatagc tgagttcgtc aattaaagac 3480
gtacaaatat cccaacttta agaaaatttt gaaggtttaa aaatgtgtgg atgtcaaaga 3540
cgttgaaact tgaaatacat cangttgata tgcataacct naaaatacca actcctatnc 3600
agccaagggg caagggaata ttacacanat agggggagaa tta 3643

```

<210> 1635

<211> 4051

<212> DNA

<213> Homo sapiens

1024

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2234)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2278)
 <223> n equals a,t,g, or c

<400> 1635
 cggaatcat tcagtgggtc agtncgagaa anatgcccgg gggtaccttc aagctcttgc 60
 ttccaagatg ccgaagagct cgaggctttg aggagttcta gtctgggggc aagaacactg 120
 gacccgctgt ggaaggtgcy ccgcakccag aarctggaca tgtccgcgcg gctggagctg 180
 cagtcggccc tggaggcgga gatccggggc aagcagcttg tccaggagga gctcaggaag 240
 gtcaaggacg ccaacctcac cttggaaaagc aaactaaagg attccgaagc caaaaacaga 300
 gaattattag aagaaatgga aattttgaag aaaaarawrr aagaaaaatt cagagcagat 360
 actgggctca aacttcaga ttttcaggat tccatttttg agtatttcaa cactgctcct 420
 cttgcacatg acctgacatt tagaaccagc tcagctagtg agcaagaaac acaagctccg 480
 aagccagaag cgtccccgtc gatgtctgtg gctgcatcag agcagcagga ggacatggct 540
 cggccccgcg agaggccatc cgctgtgccc ttgcccacca cgcaggccct ggctctggct 600
 ggaccgaagc caaaagctca ccagttcagc atcaagtcct tctcagccct actcagtgc 660
 rccactgcac ctycctgatg gttgggctga tccggcaggg ctacgcctgc gaggtgtgtt 720
 cctttgcttg ccacgtgtcc tgcaaagacg gtgcccccca ggtgtgcccc atacctcccg 780
 agcagtccaa gaggcctctg ggcgtggacg tgcagcgagg catcgaaca gcctacaaag 840
 gccatgttca aggtcccaaa gccagggggg tgaagaaggg atggcacgcg catatgcagt 900
 cgtctgtgac tgcaagctct tcctgtatga tctgcctgaa ggaaaatcca cccagcctgg 960
 tgtcattgcy agccaagtct tggatctcag agatgacgag ttttccgtga gctcagtcct 1020
 ggcctcagat gtcattcatg ctacacgcgg agatattcca tgtatattca gggtgacggc 1080
 ctctctctta ggtgcacctt ctaagaccag ctgcgtgctc attctgacag aaaaatgagaa 1140
 tgaaaagagg aagtgggttg ggattctaga aggactccag tccatccttc ataaaaaccg 1200
 gctgaggaat caggctcgtc atgttccctt ggaagcctac gacagctcgc tgcctctcat 1260
 caaggccatc ctgacagctg ccatcgtgga tgcagacagg attgcagtcg gcctagaaga 1320
 agggctctat gtcataagag tcacccgaga tgtgatcgtc cgtgccgctg actgtaagaa 1380
 ggtacaccag atcgagcttg ctcccaggga gaagatcgta atcctcctct gtggccggaa 1440
 ccaccatgtg cacctctatc cgtggctcgtc ccttgatgga gcggaaggca gctttgacat 1500
 caagcttccg gaaaccaaag gctgccagct catggccacg gccacactca agaggaaactc 1560
 tggcacctgc ctgtttgtgg ccgtgaaacg ctgatccttt gctatgagat ccagagaacg 1620
 aagccattcc acagaaagtt caatgagatt gtggctcccc gcagcgtgca gtgcctggcg 1680
 gtgctcaggg acaggctctg tgtgggctac ccttctgggt tctgcctgct gagcatccag 1740
 ggggacgggc agcctctaaa cctggtaaat cccaatgacc cctcgtctgc gttcctctca 1800

1025

```

caacagtctt ttgatgccct ttgtgctgtg gagctcgaaa gcgaggagta cctgctttgc 1860
ttcagccaca tgggactgta cgtggaccgc caaggccgga gggcacgcgc gcaggagctc 1920
atgtggcctg cggctcctgt cgctgtagt tgcagcccca cccacgtcac ggtgtacagc 1980
gagtatggcg tggacgtctt tgatgtgcgc accatggagt ggggtgcagac catcggcctg 2040
cggaggataa ggccccctgaa ctctgaaggc accctcaacc tectcaactg cgagcctcca 2100
cgcttgatct acttcaagag caagttctcg ggagcggttc tcaacgtgcc ggacacctcc 2160
gacaacagca agtaagcaga tgctgcgcac caggtagcaa aaggcggttc gtcttcaagg 2220
tcccagarga aganagactg cagcagaagc gagagatgct taaagaccca gaattganat 2280
ccaaaatgat atccaacca accaacttca accacgtggc ccacatgggc ccaggcgacg 2340
gcatgcaggt gctcatggac ctgcctctga gtgctgtgcc cccctccag gaggaaaggc 2400
cgggccccgc tcccaccaac ctggctcgcc agcctccatc caggaacaag ccctacatct 2460
cgtggccctc atcaggtgga tcggagccta gcgtgactgt gcctctgaga agtatgtctg 2520
atccagacca ggactttgac aaagagcctg attcggactc caccaaacac tcaactccat 2580
cgaatagctc caacccagc ggcccaccga gcccacaact ccccccacagg agccagctcc 2640
ccctcgaagg cctggagcag ccggcctgtg acacctgaag ccgccagctc gccacagggg 2700
ccaggagact ggagatggcc tccagcgtca gtgccaagac tgagcgggcc ctccagtgtt 2760
gtccaaggaa atgtagaatc actttgtaga tatggagatg aagaagacaa atctttatta 2820
taatattgat cagttttatg ccgcattgtt cgtggcagta gaccacatct gttcgtctgc 2880
acagctgtga ggcgatgctg ttccatctgc acatgaagga ccccatata gcctgtctcc 2940
caccctgac aacccgagag ggcataatgg gccctgccaa caccacttcc tcagcagaaa 3000
ccgtcatga cgcggctgct tcggaagcag acatctgggg acacagcctc agtaccagct 3060
cttttcccta gttcctgaaa ctttccctagg accttaagag aatagtagga ggtcctatag 3120
cattcccagt gtcactagaa ttttgaagac aggaaagtgg aggttagtct gtggcctttt 3180
tttcatttag ccattgcaca gtcagetgca gaagtccctg tgaccaccta gtcattggaca 3240
aaggcccagg accagtgaca ccctgcgtcc ctgtgtgert taagttcatt ctgggtcgca 3300
gccatgaagt gtcaccagta tctactactg tgaagtcagc tgtgtgtgtt tccattcgct 3360
tccacggctt ctgcctcctg ccataaaaacc agcgagtgtc gtgggtgcagg caggccctgt 3420
ggcctgctgg gctgagggaa gtcagagccc caggggcgcca cgaagcagcc actgggatac 3480
cccacccgc cccgccctgc ccgccccccc cccccaccag tcctgcccc gcattggagcc 3540
ccgtgatta gtagcccgta tgatcacgta gaccaccca acacactcct gcacactggc 3600
ccgggcccac ggcacagcaa tcccctgcgc gtggatttca cctcaccctt tgtaccagat 3660
gttgagtgac cagctctgtg gccctgtgtc gtcagaggct tgtgattaac tgtggcggca 3720
gacacagctt gtccacagct tgggccaggc tccccctgtc ctcccaccgg tcggctgctt 3780
ggcaaggctg ttcaggacgt gcacttcccc aagtcggcac tgagtggccc agcaccgcct 3840
agccctgcc cccactgcc ctctggggc ttctgtgga tgggcacctg gggggttctg 3900
gtttttactt ttttaatgta agtctcagtc tttgtaatta attattgaat tgtgagaaca 3960
tttttgaaca atttacctgt caataaagca gaagacggca gttttaaagt taaaaaaaa 4020
aaaaaaaaa aaaaaaaaaa taaaaaaaaa a 4051

```

<210> 1636

<211> 1242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1210)

<223> n equals a,t,g, or c

<400> 1636

```

ttgaaaaacg ggtcgactgg ccggtccgcc cggagccagc gggttctcaa gcaccagca 60

```

1026

```

tcttgcctaga cgcgcgcgcgc accgacggag gggacatggg cagagcaatg gtggccaggc 120
tcgggctggg gctgctgctg ctggcactgc tctacccac gcagatttat tccagtgaag 180
caacaactgg aacttcaagt aactcctccc agagtacttc caactctggg ttggcccca 240
atccaactaa tgccaccacc aaggyggctg gtggtgccct gcagtcaaca gccagtctct 300
tcgtggtctc actctctctt ctgcatctct actcttaaga gactcaggcc aagaaacgtc 360
ttctaaatct ccccatcttc taaacccaat ccaaattggc tctggaagtc caatgtggca 420
aggaaaaaca ggtcttcatc gaatctacta attccacacc ttttattgac acagaaaatg 480
ttgagaatcc caaatctgat tgatttgaag aacatgtgag aggtttgact agatgatgga 540
tgccaatatt aaatctgctg gagtttcatg tacaagatga aggagaggca acatccaaaa 600
tagttaagac atgatttctt tgaatgtggc ttgagaaata tggacactta atactacctt 660
gaaaataaga atagaaataa aggatgggat tgtggaatgg agattcagtt ttcatttggg 720
tcattaattc tataaggcca taaaacaggt aatataaaaa gcttccatga ttctatttat 780
atgtacatga gaaggaaact ccagggtgta ctgtaattcc tcaacgtatt gtttcgacag 840
cactaattta atgccgatat actctagatg aagttttaca ttggtgagct attgctgttc 900
tcttgggaac tgaactcact ttcctcctga ggctttggat ttgacattgc atttgacctt 960
ttatgtagta attgacatgt gccagggcaa tgatgaatga gaatctaccc ccagatccaa 1020
gcatcctgag caactcttga ttatccatat tgagtcaaat ggtaggcatt tccatcacc 1080
tgtttccatt caacaagagc actacattca tttagctaaa cggattccaa agagtagaat 1140
tgcattgacc acgactaatt tcaaaatgct ttttattatt attatttttt agacagtctc 1200
actttgtckn ccaggccgga gtgcagtggg tgcggttctc ag 1242

```

<210> 1637

<211> 2124

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<400> 1637

```

caacctgtag gtgcccacca agcccatgac gacnctgctg gccagggtcc tagccctatt 60
caggcaggag ctgctcttct ggggtatcgc gatccactta aggatgaggc agacttgggtg 120
acaagctggg ctgagcagcg cttccagagc cagaactgag ccagtgaga gcgcacctg 180
gggcagcctg gattcctggg gtgtccccgg cagccacaca cagccatgca ctacccaact 240
gcactcctct tctcatcct ggccaatggg gccaggcct ttcgcatctg cgcttcaat 300
gccagcggc tgacactggc caagggtggc agggagcagg tgatggacac cttagtctcg 360
atactggctc gctgtgacat catggtgctg caggagggtg tggactcttc cggcagcgcc 420
atcccgcctc tgcttcgaga actcaatcga tttgatggct ctgggccccta cagcacctg 480
agcagcccc agctggggcg cagcacctac atggagacgt atgtgtactt ctatcggtca 540
cacaaaacac aggtcctgag ttcctacgtg tacaacgatg aggatgacgt ctttgcccgg 600
gagccatttg tggcccagtt ctctttgccc agcaatgtcc ttcccagcct ggtgttgggtc 660
ccgctgcaca ccactcctaa ggccgtagag aaggagctga acgcccctta cgatgtgttt 720
ctggaggctc ccagcactg gcagagcaag gacgtgatcc tgcttgggga cttcaatgct 780
gactgcgctt cactgaccaa aaagcgctg gacaagctgg agctgcggac tgagccaggc 840
ttcactggg tgattgccga tggggaggac accacagtgc gggccagcac ccactgcacc 900
tatgaccgcg tcgtgctgca cggggagcgc tgccggagtc tgctgcacac tgcggctgcc 960
tttgacttcc ccacgagctt ccagctcacc gaggaggagg ccctcaacat cagtgaccac 1020
taccctgtg aggtggagct gaagctgagc caggcgaca gcgtccagcc tctcagctc 1080
actgttctgt tgctgctatc actcctgtcc cctcagctgt gccctgctgc ctgagcgtcc 1140

```

1027

```

ccctaccccc ccagggcctg ctgccttttg ggacttaaac cccagcctcc cccgtccatc 1200
cagccctggg gctggggggc ttcaactata gttgcctgt gactgtagtc caccctgccc 1260
tgccttgttt gatttggtc ttgttctttg gttgggcttg tgcctagatt aggagaggaa 1320
gccagggggc ctgcactcat gccacctgcc aggtagtgt gtatcaggag tggagacaaa 1380
gtgggctctg gggtggggta ggggaaggga ggggttcagaa agaggaatga agatgttgta 1440
tgacaagaag gaaagttact gagaacaaaa acccagattg gtgagatagg acacttggtc 1500
agcagatatg ccaatggggc atgtttattg tggattggta agaatacca ggaaaccatt 1560
aagccccaat agctacaagg aggggtggta atctgctata tcaaactcct tccctgaaac 1620
cagcaaacac cgggaaacat tttggctcat tataatccgg tgaacaatgc agtcaggcct 1680
gttataaccg ctgagcagcc acactcgcac ctctgggtg ctgtagtctg tgttggtaca 1740
ggcttctgca tgcctggtaa agtcacagca aggtcgtgca aggcaacatc tccacacaga 1800
aaatctgcac cagttatgta agctaaaaag ctgtgtgaac ccagggtgtc cggaaagggg 1860
ctgcaggaca cagcaaaatg ccagcagcat gccggacccc tcccttccat cctcctctcc 1920
aaagaagaga ggtcaggaaa aacactggct gggacgctag aagggtcatg tgtaactat 1980
aatcacattt atggtttgga accatcacc caaggtaaaa aaaaaataaa aggtattccc 2040
aggatatgtt ggcaaaaata aataaaggta attaaaaacc taaaaaaaaa aaaaaaaaaa 2100
aaaaaaaaaa agtcgtatcg atgt 2124

```

<210> 1638

<211> 1435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1426)

<223> n equals a,t,g, or c

<400> 1638

```

gtgattctcc tgcctcagcc tcccaagtag ctgggaaaaac aggcctgtgc caccacaccg 60
gagtagtttt tgtattttta gtagagatgg ggtttcacca tgctggccag gctggctctg 120
aactcctgac ctcagggtgat ctgtgtgccc cagcctccca aagcgtggg attacagggtg 180
tgagccactg agcccagcca tttaggaagt attataaagg cccttaaagt ttgtaaggaa 240
atgaaagggc tttgtattac cttttcaata ggcaacaatg tactttttct ttccttagac 300
tttggcttac tggaagattt aattaaaagg tagaggagaa gtaaatttgc tgtaataatt 360
ttgctgtaaa taaaacaaaag agtttatttt attagataaa gaatgtgaag taagcatgaa 420
gagacaggct ttgggagaaa taccagaaag ggatttttca aagatggcat tgtttaatct 480
ccgtgtggcc ctcggttggt caatcacaga tgagccagaa gagggccagc cccctacttg 540
tttgggctcc gaaactctta ccaaacatca atttttattc ttgggataga aaaatagtat 600
gtgctatctc taatacgtta cttcgatatt tattaaagaa gtatttttaa tgtagtgtcc 660
acaggctcat ttcatgaaa acaactgact atgatgatag acagctcctg attggcaaaa 720
gttcgatggt atattcagaa ttaaattttg cctgcracc taaacactga caacatttag 780
cttaaagggt ttccatggag aagagtggta agagctgtag ttagcaaaat tggcatcctc 840
tttaggggtg caattctgtg ctgctttgca aattgttgaa acttttgatt ttctgtttgg 900
caatgctagt cagtgttcac ttcttacaga ttagccaaga atttttatct aaatgcagaa 960
acttattaat gaaatccatt taaactaaca caacattttg ggaggccctg ctggtaaaat 1020

```

1028

```

tatatatgga tgcagaagta ttgcaagagt ccattttcca tttttaaatc tgcaatatct 1080
gattacattg atgaattccg ttgtattgta tgtgtgaata taaatatctg aattctcccg 1140
ggggacttgg ttttcgtcca aggatgttgg cagtggacac ttagtttacc tcaggaattg 1200
caatcatgta agactatatt cggaaaaaat gctggagtat ataattttgg atactgatat 1260
aaaatcatca agatggaagt taagcagaat tgtcacgtgt agtccatagc gcttttatat 1320
gcattattct gtaatttggt tgtactgctg caacttttta tactttcaat gtatcattta 1380
ataaaaaaaaa taagcaagtc aaaaaaaaaa aaaaaaaang ggggggncctg tttaa 1435

```

<210> 1639

<211> 1631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1613)

<223> n equals a,t,g, or c

<400> 1639

```

atcaatttgg aggaggttgg taccatctgt ttgggggttct ttaaatacaag tactaatctc 60
tctgaatttg tcatgcggaa aattggagac ttggcttgtg ctaacattca gcatctgagt 120
agtcgctcct tagtgaatat tgtaaaaatg ttccgtttca ctcacgtgga tcacatcaat 180
ttcatgaagc agattggaga gatagctcct cagcgaattc cttccctggg agttcaagggt 240
gtcatgcacc tgactcttta ctgctcggcc ttacgcttcc tgaatgaagg agtaatgaat 300
gcagtggctg cgtcttttgc tcctagagtg gcacactgtc gaagtaaaga tgttgccaag 360
attctgtggt catttggaac tctgaattat aagccaccca atgcagaaga attttactcc 420
agcctgataa gtgagattca cagaaagatg cctgaattca accagtaccc agaacacctg 480
cccacctgcc tgctgggcct ggcatttttg gagtactttc cagtagagtt aattgatttc 540
gctctcagtc caggggttgt cagggttagct caggagagaa ctaagtttga cctccttaag 600
gaactatata ccctcgaagg tacagttggc attgagtggt cagattacag aggcaatcgt 660
cttagtactc accttcagca agaggggtct gaattgctgt ggtatttagc agagaaggat 720
atgaattcaa agcctgaatt cttagaaaact gtctttttac tggagaccat gctggggggg 780
ccccagtacg tcaagcacca tatgattttg cctcataccc gatcttctga cttagagggtc 840
cagcttgatg ttaacctgaa gccattacca ttaatatagag aagccacgcc ggctgaaaaat 900
gtagccaaat taaggcttga gcatgtggga gtcagcctta cagatgattt gatgaataag 960
ttactaaaag ggaaagcaag aggacatttc cagggcaaaa ctgagtcaga gcctgggcag 1020
cagccatgga gtgggagaat aaggcagctg tacctctggg gggcttcctt tgcaatgtag 1080
cagntaaatc aggggccatg gagatggytg gcctktgccc cgcagcctgc atgcagaccc 1140
caagaatgaa gctggctgtt cagttcacia acaggaacca gtattgctat ggctccaggg 1200
atctccttgg actgcacaat atgaagaggc ggcagctggc tcggcttggc taccgtgtgg 1260
tagagttatc ctactgggaa tggctccac tactgaaacg aactcgctta gaaaagttgg 1320

```

1029

```

cgtttcttca tgagaaaagta ttcacctctg ctctctgaag ggcatttagg ggcatttcta 1380
tggcaaagct ataggtgtat actgtaccag gtgttgcaaa atgattataa aagccagaat 1440
gtaagtttgg cgataaaata gtgtgttgag gagacttaat tgtatccaag gcagggttaga 1500
gctagtgtat gttactgtga attgtaatgt agttggattg tacaaattac tgcaaatgta 1560
tacatgttac tcttagtaaa taataaacat cttaatatgt cctacggtca annaaaaaaaa 1620
aaaaaaaaaa a 1631

```

<210> 1640

<211> 853

<212> DNA

<213> Homo sapiens

<400> 1640

```

gaataaaccc aacctacaga gcatcatagc ttagcctagc ctgctttaaa tgtgctcaga 60
aaacttccat tagcctgcaa ttaggcaaaa tcatcaaaaca taaaaccatc aaacataaaa 120
tatttataaa gtgttgaata tctcatatag tttattgaat acctgcatcc aaaagatgct 180
ggcaacacag cacactttag agcattgggt gtttactctc ttgatgggtat ggctgcccag 240
catcaagagt tatcactactg caaatcgata gccaggaaa agagcaaaat tcaaagttca 300
aagtagagtt tttactgaat gcttgctttt gcaccgtcgt aaagttgaaa agaattttaa 360
ttgaaccatc ataagctgca gactgtgcat tttatattga aaagttaata tttttaattt 420
ttaatgcaga gaagtaccca aagcataaga acacaacaca ttttcacaaa gcaaacacag 480
ccatggaacc agcaccata tcaactaaca aaatactagt ttgggctttt ttgtacttta 540
tacaaatgga ctcataataat gtcatctttt tgggtctgcc tgctttcatt caatattagg 600
tttgtgggtt catctctgct gtgtgtagtt ctttctgtt ctttatacag tgttccaaag 660
tatagtatat tacagtttac ccattctact cttgatagta aatgttttca catttgggct 720
attacaaata gtgctgcagt gaacattcac atacacatct tttggtgaac atgtgttaca 780
tttccaagta caattgctgg gtgatgagta tgcatactct taaaacatgg ttgtaccaat 840
ttacacctct acg 853

```

<210> 1641

<211> 688

<212> DNA

<213> Homo sapiens

<400> 1641

```

gggcagatgc gtggaagcac tgtcttggtg atctggggta agatccaaga gaattccctg 60
cattaccagg cagagactct tttccccttc tcttgccctc ctgcaaacaa atggagtctc 120
tctccatact grgctccctg gatcctgggg caggggtgac acaagagccc atatggccac 180
caccactggg actgcaactg atcagaccta aagccagggc aacactgggt cttgcctaag 240
gccacagtg accactgcct ggctattgct gatgttcacc caaggcccag gggctkttca 300
gtcagcagtt ggtgaaccca gccagaccca tgtccttccc ttcaaggcaa taagcttttc 360
tccctgctgg cccaagtggg ttcccttctg gccctgggtg tgtctggaaa tgtcatctgg 420
gagctagggc ctggatgagt gcatcagggc tctgcctggc accctatcct actgtggctg 480
agctgggtgta caagttgcaa gacagtcttc tttactcctc ctccctcctc cctgtagcag 540
aaagaaggaa tctctcccaa agctgcgagc tgtactgctt ggggttgggg gaggggtggc 600
acaagcactc ccttagccac cctggctggt gtctcactaa tttgtgtgca cccaagtc 660
actggctcca agggcagcgc agcaccat 688

```

<210> 1642

<211> 1916

<212> DNA

1030

<213> Homo sapiens

<400> 1642

```
gcgccgccgt cgtgcgtgcc gctcggcgga ggggacgggc ctgcgttctc tcctccttcc 60
tccccgcctc cagctgccgg caggaccttt ctctcgtgc cgctgggacc ccgtgtcatc 120
gcccgagccg agcacgatgc cccctaaaaa gggaggtgat ggaattaaac ccccccaat 180
cattggaaga tttggaacct cactgaaaat tggattgtt ggattgcaa atgttgggaa 240
atctactttc ttcaatgtgt taaccaatag tcaggcttca gcagaaaact tcccgttctg 300
cactattgat cctaatagaga gcagagtacc tgtgccagat gaaaggtttg actttctttg 360
tcaataccac aaaccagcaa gcaaaattcc tgcctttcta aatgtggtgg atattgctgg 420
ccttgtgaaa ggagctcaca atgggcaggg cctggggaat gcttttttat ctcatattag 480
tgcctgtgat ggcattcttc atctaacacg tgcctttgaa gatgatgata tcacgcacgt 540
tgaaggaagt gtagatccta ttcgagatat agaaataata catgaagagc ttcagcttaa 600
agatgaggaa atgattgggc ccattataga taaactagaa aaggtggctg tgagaggagg 660
agataaaaaa ctaaaacctg aatatgatat aatgtgcaa gtaaaatcct' gggttataga 720
tcaaaagaaa cctgttcgct tctatcatga ttggaatgac aaagagattg aagtgttgaa 780
taaacactta tttttgactt caaaaccaat ggtctacttg gttaatcttt ctgaaaaaga 840
ctacattaga aagaaaaaca aatggttgat aaaaattaaa gagtgggtgg acaagtatga 900
cccaggtgct ttggtcattc ctttttagtg ggccttggaa ctcaagttgc aagaattgag 960
tgctgaggag agacagaagt atctggaagc gaacatgaca caaagtgcct tgccaaagat 1020
cattaaggct gggtttgag cactccaact agaatacttt ttcactgcag gccagatga 1080
agtgcgtgca tggaccatca ggaaaggac taaggctcct caggctgcag gaaagattca 1140
cacagatttt gaaaagggat tcattatggc tgaagtaatg aaatacgaag attttaaga 1200
ggaaggttct gaaaatgcag tcaaggctgc tggaaagtac agacaacaag gcagaaatta 1260
tattgttgaa gatggagata ttatcttctt caaatttaac acacctcaac aaccgaagaa 1320
gaaataaaat ttagttattg ctacagataa catacaactt ccaaaaggca tctgattttt 1380
aaaaaattaa aatttctgaa aaccaatgcg acaaataaag ttggggagat gggaatcttt 1440
gacaaacaaa ttatttttat ttgttttaaa attaaaatac tgtgtacccc ccccmeycc 1500
atgaaatgca ggttcaacta atgtgaacag ctttgctttt cacgtgatta agacctact 1560
ccaaattgta gaagcttttc aggaaccata ttactctcat gatacttcat taatctccat 1620
catgtatgcc aagcctgaca catttgacag tgaaggacaat gtggcttgct cttttttgaa 1680
tctacagata atgcatgttt tacagtactc cagatgtcta cactcaataa aacatttgac 1740
aaaacaaaaa aaaaaaaaaa aaaagtacta gtaacgggtc ttgttccatc tcgagggggg 1800
gcccggtacc aggtaagtgt acccaattcg ccctatagtg agtcgtatta caattcactc 1860
gatcgccctt cccaacagtt gcgcaacctg aatggcgaat ggagatccaa ttttta 1916
```

<210> 1643

<211> 1344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1343)

<223> n equals a,t,g, or c

1031

<400> 1643

```

ggcagagcac atgcgcaccg cagcgggtcg cgcgccctaa ggagtggcac tttttaaaag 60
tgcagccgga gaccagccta cagccgcctg catctgtatc cagcgccagg tcccgccagt 120
cccagctgcg cgcgcccccc agtcccgcac ccgttcgggc caggctaagt tagccctcac 180
catgccggtc aaaggaggca ccaagtgcac caaatacctg ctgttcggat ttaacttcac 240
cttctggctt gccgggattg ctgtccttgc cattggacta tggctccgat tcgactctca 300
gaccaagagc atcttcgagc aagaaaactaa taataataat tccagcttct acacaggagt 360
ctatatcttg atcggagccg gcgccctcat gatgctgggt ggcttccttg gctgctgcgg 420
ggctgtgcag gagtcccagt gcatgctggg actgttcttc ggcttcctct tggtgatatt 480
cgccattgaa atagctgcgg ccatctgggg atattcccac aaggatgagg tgattaagga 540
agtccaggag ttttacaagg acacctacaa caagctgaaa accaaggatg agccccagcg 600
ggaaacgctg aaagccatcc actatgcgtt gaactgctgt ggtttggtcg ggggcgtgga 660
acagtttatc tcagacatct gcccgaagaa ggacgtactc gaaaccttca ccgtgaagtc 720
ctgtcctgat gccatcaaag aggtcttcga caataaattc cacatcatcg gcgcagtggg 780
catcggcatt gccgtgggtc tgatatttgg catgatcttc agtatgatct tgtgctgtgc 840
tatccgcagg aaccgcgaga tgggtctagag tcagcttaca tccctgagca ggaaagttaa 900
cccatgaaga ttgggtgggat tttttgtttg tttgttttgt tttgtttgtt gtttgttgtt 960
tgtttttttg ccaactaatt tagtattcat tctgcattgc tagataaaaag ctgaagttac 1020
tttatgtttg tcttttaatt cttcattcaa tattgacatt tgtagttgag cgggggggtt 1080
ggtttgcttt ggtttatatt ttttcagttg tttgtttttg cttgttataat taagcagaaa 1140
tcctgcaatg aaaggtacta tatttgctag actctagaca agatattgta cataaaagaa 1200
tttttttgtc tttaaataga tacaaatgtc tatcaacttt aatcaagttg taacttatat 1260
tgaagacaat ttgatacata ataaaaaatt atgacaatga aaaaaaaaaa aaaaaaaagg 1320
gcggccgccc cagaggancc ccng 1344

```

<210> 1644

<211> 1109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1075)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 1644

```

ttgttgacca gctaccctga gccaggcacc accctgaagg agcttctttt cctctgggga 60
gaagcaaatt catgatgtgt gtgctggaga tctggcactc atggccagtg ctttccagta 120
tcttgaactc ttcgggggtc ctgttgacct atttcgtgac ctacctccgt gactgctctt 180
tttcctctgt ctcttaagtg tgatggtttt ccagagtcca atcctcagga ctttcccgtc 240
cacacacagg cctggtagtc aggtggctct aaaccattag gtgggttgta gacctctctc 300
aagctgccac ctccttgctg tcgccagatc gtatttcagt ctgtcagggg ttatctgtat 360
ctggagggtc cactgttgct tcagtctcag ttacttagaa tggaaaccag agtcctgccc 420
ctttccacct acatgctctt acttgaaagc acctgagact tattgggtcc ctgattcctg 480
cttcgtctgt atccgcagag tagttgcatg tcatttggcc tgttttctaa ataatcccac 540
atcatgtcct ccctgcactt acattgccac tgctctgatt tgggcttttt tttttttggg 600

```


1032

```

acaatgcctc tgtcccaatt ctgagtaaca gctctggttc ttgccactac cagagttctc 660
tagcaaatct gagcatctga cagggtgaaa aattctgaat ggcttcctga tgccctgactt 720
tatgggatca aattcaagtt gcacgctgca ctgagtgccc ttctgggtatc atctgccaaag 780
accagggcct gcttcaccac agccacaata aagtcctttc aagccctgaw aatgccatgt 840
tttgtcctaa cctttttgctg cagttaatta ctcttcctat tatcttccat gaacttaaga 900
ctgggcaaaa atgttttcctt atctgtgagc cactctgaac acaaacaggt catgaagata 960
gtgttgaaaa caataaatga caaccaaag gaaaagtggg atattaccta gttacaaata 1020
gtgtaaattg agacmgaaat gttaaagcta gaaagcaagg ggcaatattt ctagnantac 1080
aaattagtggt cttggcctac tacaatatt 1109

```

<210> 1645

<211> 2173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2170)

<223> n equals a,t,g, or c

<400> 1645

```

acagagattt gattttctaatt gctatgaatt ggaccagttg gctgacatgc cacaagaaac 60
ttcatatttaa gaaacctgct aatatttttag ttatgggtga aggtcctgag cgaggaagag 120
taaaaaattgc tgacatgggc tttgccgatt atttaattca cctttgaagc ctttagcaga 180
tttggatcca gtggttggtta cattctggta ccgagcccct gaactacttc ttggagcaag 240
gcattatacc aaagctattg atattttgggc tataggggtgt atatttgcag aactactaac 300
gtcagaacca wtatttcact gtcgacaaga ggacatcaaa actagtaatc cttatcacca 360
tgaccagctg gacagaatat tcaatgtaat gggatttcct gcagataaag attgggaaga 420
tataaaaaag atgcctgaac attcaacatt aatgaaaagat ttcagaagaa atacgtatac 480
caactgcagc cttatcaagt atatggaaaa acataaagtt aaaccagata gtaaagcatt 540
ccacttgctt cagaagctgc ttacatgga cccaataaag cgaattacct cagaacaggc 600
tatgcaggac ccctatttct tagaagaccc acttcctaca tcagacgttt ttgccggttg 660
tcaaatccct tacccaaaac gagaattttt aacggaagaa gaacctgatg acaaaggaga 720
caaaaaagaac cagcagcagc agcagggcaa taaccacact aatggaactg gccacccagg 780
gratcaagac agcagtcaca cacagggacc cccgttgaag aaagtgagag ttgttcctcc 840
taccactacc tcaggtggac ttatcatgac ctgagactat cagcgttcca atccacatgc 900
tgccatatccc aaccttggac caagcacatc acagccgcag agcagcatgg gatactcagc 960
tacctcccag cagcctccac agtactcaca tcagacacat cgggtactgag ctgcatcgga 1020
atcttgtcca tgcactgttg cgaatgctgc agggctgact gtgcagctct ctgcgggaac 1080
ctggtatggg ccatgagaat gtactgtaca accacatctt caaaatgtcc agtagccaag 1140
ttccaccact ttccacagat tggggtagtg gcttccaagt tgtacctatt ttggagttag 1200
acttgaaaag aaagtgctag cacagtttgt gttgtggatt tgctacttcc atagtttact 1260
tgacatggtt cagactgacc aatgcatttt tttcagtgac agtctgtagc agttgaagct 1320
gtgaatgtgc taggggcaag catttgcctt tgtatgtggg gaattttttc agtgaacaa 1380
cattatctga ccaatagtac acacacagac acaaagttta actggtactt gaaacataca 1440
gtatatgtta acgaaataac caagactcga aatgagatta ttttgggtaca cctttctttt 1500
tagtgtctta tcagtgggct gattcatttt ctacattaat cagtgttttc tgaccaagaa 1560
tattgcttgg atttttttga aagtacaaaa agccacatag tttttccaga aaggtttcaa 1620
aactcccaaa gattaacttc caactataa gtttgttttt attttcaatc tatgacttga 1680
ctggtattaa agctgctatt tgatagtaat taaatatgtt gtcattgata taaacctgtt 1740
tggttcagca aacaaactaa aatgattgtc atagacagtg ttttattttt cctgttgggtg 1800

```

1033

```

ttgctgattt gtgagcatgc ttttaagatga aaaaagcatg aatgataact tccttaaaaa 1860
ggtgcggcat ccaattcaaa tattttcgtc ctgattttta agctgggttg tgtagtgcta 1920
ttaaaatttc gttcagttaa ttttcctttt gaaaacttgt tcgcacgttg tttaggggtgc 1980
ccttacttca gcaaaggaga aggagtagga gagccttaga atttttgagg aaaaaaaac 2040
ctataacata caatgtactg tatcaaacta ttttacatga atgacacaag tattctgaat 2100
aaaaataat tgaacattgt taaaaacaag gtgttatgta ataaatttat ttttcataaa 2160
tcaaaaaaan aaa 2173

```

<210> 1646

<211> 1394

<212> DNA

<213> Homo sapiens

<400> 1646

```

ggcggcgtct tccggggcct ggcggggcgg ggaccgaggg ggcggggagg tgaccgggcg 60
ggggcgggagc cagcggggcg gcgcggcgcg ggaggcgacc atgcgcggcg cgggggcgat 120
cctgcggccg gcggcgcggtg gtgcccggga cctgaacccg cggcgggaca tctcctcctg 180
gctggcccag tggttcccta gaacccagc cagggtccgtg gtggccctga agacccccat 240
caagggtggag ctgggtggcag ggaaaaccta cagggtggtgt gtgtgtggcc gcagcaagaa 300
gcagcccttc tgtgacggct cccacttctt ccaacgcact ggcctatctc cactcaagtt 360
caaggcccaa gagacccgca tgggtggcact ctgtacctgc aaggccactc agaggccccc 420
gtactgcgat ggcaccacca ggagtgagcg cgtgcagaag gcagaagtgg gctccccact 480
ctgagggggc tgctgctgtc cagccacagg tggccttggc tccaggcctc tgacaggcac 540
ccccttctgt gggaaaggaa acagggtgctg agcccaagag actctggtac ccactgctgg 600
ctcatgaagg aagaattatt cttataacc taaaagtctc cagtctgggg caggcggggag 660
tgggcccttg ttcaatgttt gctgatgggg aagatggcaa aaacaagcct gcccaaccag 720
actggtagtc ctgcagtcac tgctatgagg cccatgtgct gcctcctgct ccagatttta 780
acctctctgt gggctggggg cacctgacca gccacaggag agggcagttc agattcattc 840
tgtatggggc cccaagcca ggctaaaccc agagatgaga ggcacccttc cttcttccc 900
tccaccccaa agaactacag gctccagaaa gtatgcagca tttattacaa agccaagaga 960
tacagatgtc ccagggcaaa ggagggtaca gtcacaggac ctcagacaca ggacaagggtg 1020
caaacacaga caagcccatc aggggggtcc caaccccaca cacctacgct atgatggaat 1080
ctcgagtctc gactcccgac tcctctcaga tctatgcaca cttgaggaaa tctcgggtggg 1140
cagcgacctg ccagggtctg tccctaagga ggtggtccgc tgacctctca aggggtgggg 1200
gtggggtcag agcttacagg tttctgtctt cttgtgcttt tagatgcagt tgctctgtcc 1260
tgaccagggtg accgggcctc agactcggac gccccgctgg tgttggtgcc tcggaggggt 1320
gggcacgtgg ctagggtgag cgcttgaggc tggctggaca ggtacttgag ggggagaggc 1380
cgttccgccc cagg 1394

```

<210> 1647

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 1647

```

tacaggccng gtccattaac cagccaggga atgaacmtca gcagacagty tcccmcttg 60

```

1034

```

aatttattgc cctctagtgc gcacttcagg ccttccacct acaaaaaatc ttcaggcccc 120
ctcaaagcta mcaaactcat catccactgg aactggtggg aagacagctt gagtgggaatt 180
gcaatgaatg tacctgccag cagaggtagc aaccttaact caagcggagc taataggact 240
agtctgtctg ggggaacagg aagtgggaaca caggggtgcta ccaaaccatt gtctactcca 300
catagaccat ccactgcctc aggggtcttca gtggtaacag ccagtgtgca gaagctcatt 360
cacacagaag acccatttaa tgatgaacat caggagagggc aagaggtgga aatggttggt 420
aagaagtttg aaatgaaata ttatgatgaa ttagtctccg cttctctaac aacaaaatat 480
ggaggctttt atatcaacac tggcactcta cagtttcgcc aagcttcaga tactgaagaa 540
gatgatatta cagacaacca aaagcacaag ccaccaagg tccccaaat aaaagaagat 600
gatattgaga tgaagaagcg gaagcggaaa gaggaagggg aaaaggagaa gaagccaagg 660
aaaaaagttc ccaaacaact gggagttgtg gctctaaatt cacacaagtc tgaaaaaaaa 720
aaaaa 725

```

<210> 1648

<211> 1593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (697)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1032)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1078)

<223> n equals a,t,g, or c

<400> 1648

```

ggctggatcg cggtgtcccg cctggcgcgc ccgcagcgcc tgccgggtggc cactcgcgcg 60
gtgctcatca ccgggctgtg actctggttt tggcaaggag acggccaaga aactggactc 120
catgggcttc acggtgcttg ccaccgtatt ggagttgaac agccccggtg ccatcgagct 180
gcgtacctgc tgcctccctc gcctaaggct gctgcagatg gacctgacca aaccaggaga 240
cattagccgc gtgctagagt tcaccaaggc ccacaccacc agcaccggcc tgtggggcct 300
cgtcaacaac gcaggccaca atgaagtagt tgctgatgcg gagctgtctc cagtggccac 360
tttccgtagc tgcatggagg tgaatttctt tggcgcgctc gagctgacca agggcctcct 420
gcccttgctg cgcagctcaa ggggccgcac cgtgactgtg gggagcccag cggggggacat 480
gccatatccg tgcttggggg cctatggaac ctccaaagcg gccgtggcgc tactcatgga 540
cacattcagc tgtgaactcc ttccctgggg ggtcaaggtc agcatcatcc agcctggctg 600
cttcaagaca gagtcagtgaa gaaacgtggg tcagtgggaa aagcgcaagc aattgctgct 660
ggccaacctg cctcaagagc tgctgcaggc ctacggnaag gactacatcg agcacttgca 720
tgggcagttc ctgcactcgc tacgcctggc catgtccgac ctcaccccag ttgtagatgc 780
catcacagat gcgctgctgg cagctcggcc ccgccgccgc tattaccccg gccagggcct 840
ggggctcatg tacttcatcc actactacct gcctgaaggc ctgcggggccg cttcctgcag 900
gccttcttca tcagtcactg tctgcctcga gcactgcagc ctggccagcc tggcactacc 960
ccaccacagg acgcagccca ggacccaaac ctgagccccg gcccttcccc agcagtggtgct 1020

```

1035

```

cgggtgagcat gntgcaccta tggcccagcc actgcagcac aggaggctcc gtgagccntt 1080
ggttcctccc cgaaaacccc cagcattacg atcccccaag tgccttgac cctggcctaa 1140
agaatcccac ccccaattca tgcccactgc cgatgcccaa tccaggcccg gtgaggccaa 1200
ggtttcccag tgagcctctg cgcctctcca ctgtttcatg agcccaaaca ccctcctggc 1260
acaacgctct accctgcagc ttggagaact ccgctggatg gggagtctca tgcaagactt 1320
cactgcagcc ttccacagga ctctgcagat agtgcctctg caaactaagg agtgactagg 1380
tgggttgggg accccctcag gattgtttct cggcaccagt gcctcagtgc tgcaattgag 1440
ggctaaatcc caagtgtctc ttgactggct caagaattag ggccccaact acacaccccc 1500
aagccacagg gaagcatgta ctgtacttcc caattgccac attttaata aagacaaatt 1560
tttatttctt ctaaaaaaaaa aaaaaaaaaa aag                                     1593

```

<210> 1649

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<400> 1649

```

aaagaactgt gtgagaacac tgaaaactca aaaagtcaga atgccttctt tcctccaaat 60
gactgtatca actctccagc aagtgttcan aactgggctg aggctgagat gtctggaatg 120
atacaagcag ggttcaggat atgcgtagga acaaagttca ctgagtgaat gaagtatgtt 180
gtcatgcaat acaagtgcag taaaaatcat tgtaaaacat tgcagganct aacagacaaa 240
atancaagta taaagaagac ataaccgacc tratagagct gaaaagcaca ctasaagaat 300
tttcataatg cartcacatg gtgattatgt gtgactggat tatgaaaatt attgtagtgt 360
gtgtgggcac ccgagattgc cctgtaagca ggacgcctgc acattacctc tccatactgc 420
agccctttat atggaaactt cctacatcac tttgctgtgt gtgtttacac atgtnggggt 480
ttgctgtact tgccctgaca gcacaccggg agtgcaggcc acacccaac ccacaccaac 540

```

1036

tgccacttga aanacaaaac cttgggtggg gc

572

<210> 1650

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 1650

```
gcactagcgc tatcacattc tctccgggat tccccccct gctctgtggc ttcttggtga 60
gagggtggtt gggttatggt tagcngttga aaagattcag gttatccttt taaatgactt 120
tacgttttag tggagctggg agattacttg cctggcttct aatcttcatg ttgggttcatt 180
ttatttccat atgtgtgtgg gttatttggt cagtaattag aattagataa agtattctgc 240
ttttaagtag ttttgagaag gcctaaaaat actaaagtgt attcataaat atttttatta 300
tgntcaagta gaagacacac ctttgccatg taaattttaa cttttcttca agncttcagt 360
gaatctacag acctattttc tcangagctc aacctggcct tactt 405
```

<210> 1651

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (919)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (987)

<223> n equals a,t,g, or c

1037

<400> 1651

```

gcaaaaccaa caaaacaacc aaatacaggt ctcaagcgat ttacagctcg gtgcttaact 60
cggtcaccgg ccgaggggca gccctctggc gccaaagccc cgctctctta tgacgtcaca 120
cgaggagccc tgaagtggcg gtcaagcttg aggcgtcatc tggctgcgct aagtgggccc 180
ttgccttaca gttgctgaga ggagggcgaga ggcggggggcg ctaggggccga gatcatgtct 240
gactgggaga ggtttctctt gcagcagagg acgctagggt tgggatgaaa gaagctgggc 300
agatgcaaaa tctggagagc gcgagggccg ggcggtcagt cagcaccag actggcagca 360
tgaccggtga gtgtccggga ccctgctccc gccaccctac ctttcgctct gccctgtgcg 420
tctcccgtca ttgaactcca gattccttgt ctgagcctct ttgcctcccc tgcctgtttt 480
ggatgtctcc tgcccgcctt ctgcgtgtcc cctccgcggc cgccaggacc aatcggtctg 540
gtcgcactgg cttttgaaagt ctcgcttttt acccctgtta gctacttctc acaggacctt 600
gagctggggc ctctgaggtc aaagagcctg aacatttcca aacggcgctt ttgccttgat 660
ttccaaatta accgcacgtg acgcttttct gtatttcgac tgctttaccg tcgaaggcca 720
gataccaagg ctttctaaag tcaacctttt cactctgctc agcctctgga tggagctctt 780
tccagcagaa gccagcggc aaaaatctca gaaaaatgaa gagggaaagc atggaccctt 840
aggagataat gaagagagga ccagagtatc tactgacaaa agacagaaaa ccatgttctg 900
cttgtttgaa aatgattgna aatgcaaaag cttaacagta atgatcagat ctatgtctag 960
gtcagtgctt tgagctataa atggcanaac ttcta 995

```

<210> 1652

<211> 636

<212> DNA

<213> Homo sapiens

<400> 1652

```

gcgagcgcgt gggaaataat tgcattaaaa tacaaaaggat gatagggag aattaaaaga 60
tttgcagtat tgtacacaaa agctaataat tttgtgtact ttttatttat tttggagggt 120
ttatatgatc ttcaattgag tattaaataa tttgcctaga ttaagcctaa aatgatgacc 180
agctaattaa agaagatatt ttgaatctgg ttctgagcta aagttgagta aattcttagc 240
taagaaaaaa ttggaaatcc atcatctata ttagcaacag attctcagag taaattgtta 300
acttctatga tttatgataa tcaagctgga cttgatcata caagttagtc tcataatgta 360
ttggacccaaa atgtaaactt cattggtcag atttagaagc attcatgctc acaagttttg 420
ggaaagtga aaataataaa atcatcttgg attttattct gtatattaaa atttatcttt 480
taaggaaaca atctgtatag tacttgcttg tatagccttt tgacccttct tgagttttttc 540
agaagccttt aattttttata ctttcaatac catattttaca ttatatactt taattaacaa 600
tgtgagtttc tctgtgaaaa aaaaaaaaaa aaaaaa 636

```

<210> 1653

<211> 1255

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1251)

<223> n equals a,t,g, or c

<400> 1653

```

ggcagagcag gaggagcacg ggaaaagaaa gaagaaaggc aaggggctag ggaagaagag 60
ggacccatgt cttcggaat acaaggactt ctgcattcat ggagaatgca aatatgtgaa 120
ggagctccgg gctccctcct gcattctgcca cccgggttac catggagaga ggtgtcatgg 180

```

1038

```

gctgagcctc ccagtggaaa atcgcttata tacctatgac cacacaacca tcctggccgt 240
gggtggctgtg gtgctggatt tgatgagtta actgtgaaat accacaagcc tgagaactga 300
atTTtgggac ttctacccag atggaaaaat aacaactatt tttgttggtg ttgtttgtaa 360
atgcctctta aattatataat ttattttatt ctatgtatgt taattttatt agtttttaac 420
aatctaacaa taatatTTtca agtgcctaga ctgttacttt ggcaatttcc tggccctcca 480
ctcctcatcc ccacaatctg gcttagtgcc acccaccttt gccacaaagc taggatgggt 540
ctgtgaccca tctgtagtaa tttattgtct gtctacattt ctgcagatct tccgtgggtca 600
gagtgccact gcgggagctc tgtatgggtca ggatgtagggt gttaacttgg tcagagccac 660
tctatgagtt ggacttcagt cttgcctagg cgatTTtgtc taccatttgt gttttgaaag 720
cccaagggtgc tgatgtcaaa gtgtaacaga tatcagtgtc tccccgtgtc ctctccctgc 780
caagtctcag aagaggttgg gcttccatgc ctgtagcttt cctgggtccct ccccccatg 840
gccccaggcc cacagcgtgg gaactcactt tcccttgtgt caagacattt ctctaactcc 900
tgccattctt ctgggtgtac tccatgcagg ggtcagtgca gcagaggaca gtctggagaa 960
ggatttagca aagcaaaagg ctgagaagga acagggaaca ttggagctga ctgttcttgg 1020
taactgatta cctgccaaat gctaccgaga aggttggagg tggggaaggc tttgtataat 1080
cccaccacc tcacaaaaac gatgaagkta tgctgtcatg gtcctttctg gaagtttctg 1140
gtgccatttc tgaactgtta caacttgtat ttccaaacct ggttcatatt tatactttgc 1200
aatccaaata aagataaccc ttattccata aaaaaaaaaa aaaaaaaaaa ntctc 1255

```

<210> 1654

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 1654

```

ggaatctcct actatagtga aagctgggtac ncctgcaggt accggtccgg aattccccgg 60

```

1039

```

tcgacccacg cgtccgccc cgcgtccggg actccttgaa ccctggactt caaaggggggt 120
agagattgct gcagccccgc attataaaca cttgggttta gaagccacag aataccattt 180
cctgcatatt ctattggnca aagcagggtg agaaccagct ctgaccaaga gggtagggga 240
tcaaaccctt acctcttgat gggagaggca tcacacacac acacatgcac acatacatat 300
rcatatatac attaatgact tggcatttat agtgcttgat aaattagagt tctattaata 360
gaatgttttg actagggcta caggataaac tgttgccctc acttaagaga atcaggaaat 420
ggactttggg agtcctgctt ggcattantt tgtggcangg ttgcagatgc nctgtattta 480
cacttaagaa gtcttcgaac atttcctctt ttgacatt 518

```

<210> 1655

<211> 793

<212> DNA

<213> Homo sapiens

<400> 1655

```

gcttgaaact ccagaatggt cccaccatgg gtggccaagc cacatcacag ggaagaaacc 60
ttcaatgtgc tttctgtgca gcacactcct ctcttctgtg atctgaacac gaaccaccac 120
ctctaggcta ggactcagat gcagtgaact ccactatacc cacagtcaca tacggacagt 180
aacttctctt cccgaatcct gtctggatcc aagtgtccct gggccagagt ctccctaaga 240
gacagccctg agtccaagcc cctgagaagc tcagggccat gcaaagcagg aggcctgggt 300
gtggaagggg tatgggtagg gcctgagaat ggactgaggg gcagacagtt cagggaaggg 360
aagatcactg gggtagagag gtgacctgra gggagggtcag cgtgggcagg ggtgagacca 420
aggaaaagat tgaagaacag aaggcatttg ccttacagct tcaaaaccag agattgcagg 480
agcgggaaca ttcagtacat gattcagtag aactacatct tcgtgtacct cttgaaaagg 540
agattcctgt tactgttgtc caagaaacac aaaaaaaagg tcataaatta actgatagt 600
aagatgaatt tcctgaaatt acagaggaaa tggagaaaga aataaagaat gtatttcgta 660
atgggaatca ggatgaagtt ctcagtgaag catttcgcct gaccattaca cgcaaagata 720
ttcaaactct aaaccatctg aattggctca atgatgagat catcaatttc tacatgaata 780
tgctgatggg agc 793

```

<210> 1656

<211> 1062

<212> DNA

<213> Homo sapiens

<400> 1656

```

gggcacgagt ttctgtcttc ctctctgggt cctccttctt cccacccctt ctaataggct 60
cataagtggg ctccaggctc tctgcggggc tcaactctgc cttcaccatg gctttcattg 120
ccaagtccct ctatgacctc agtgccatca gcctggatgg ggagaaggta gatttcaata 180
cgttccgggg cagggccgtg ctgattgaga atgtggcttc gctctgaggc acaaccaccc 240
gggacttcac ccagctcaac gagctgcaat gccgctttcc caggcgcttg gtggtccttg 300
gcttcccttg caaccaattt ggacatcagg agaactgtca gaatgaggag atcctgaaca 360
gtctcaagta tgtccgtcct gggggtggat accagcccac cttcaccctt gtccaaaaat 420
gtgaggtgaa tgggcagaac gagcatcctg tcttcgccta cctgaaggac aagctcccct 480
acccttatga tgaccattt tccctcatga ccgatcccaa gctcatcatt tggagccctg 540
tgcgccgctc agatgtggcc tggaaacttt agaagtctc catagggccg gagggagagc 600
ccttccgacg ctacagccgc accttcccaa ccatcaacat tgagcctgac atcaagcgcc 660
tccttaaagt tgccatatag atgtgaactg ctcaacacac agatctccta ctccatccag 720
tcctgaggag ccttaggatg cagcatgcct tcaggagaca ctgctggacc tcagcatttc 780
cttgatatca gtcccttca ctgcagagcc ttgcctttcc cctctgcctg tttccttttc 840
ctctcccaac cctctgggtg gtgattcaac ttgggctcca agacttgggt aagctctggg 900

```


1040

```
ccttcacaga atgatggcac cttcctaaac cctcatgggt ggtgtctgag aggcgtgaag 960
ggcctggagc cactctgcta gaagagacca ataaagggca ggtgtggaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1062
```

<210> 1657

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<400> 1657

```
ggcttcgtaa gatttaacat atcagaactg gggaaagaga aaggaggggg ttattttttt 60
gcagcatttt ccagtcacat atcaggggta tactgaactg caacaaagat caacttttaa 120
aaattagcct tcttaaaata caaaatgatt taagtatttt aaagataatt tatttgcctt 180
gctcttgcc tctaacatta gccatttcat ggagagggcta aaacttatac tccaaaaaat 240
gtggaagcac attttaatgg gagtaaaatt aaaaaatttt gagaaaggg aaatccttat 300
gaatatgcat cttcttagct ttatcttccc tttgataggt aggcacttat gctcttccat 360
ctgctccatg tcaaataagg ctcagggaag ccagtcattt ccttagcgag atgattactc 420
ctttgccttg aaacatttat tggggcccac catgtatgga tcagtgtgtg gtartgartc 480
atactcccaa atcartgatt cccaartctt ggctttgggr accmgtatgc cttgtattct 540
cttaaaaagc aacaataatt tcttgaaaca aaattagttc aanaattgga attaaaaaat 600
atttccagtt gt 612
```

<210> 1658

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<400> 1658

```
catcttaggt gacactatag aaggtaggcc tgcaggtagc ggtccggaat tcccgggtcg 60
accacgcgt ccgnccacgg tccggctttc agcaattgat ggtgctttgt tgtgggtgtc 120
gctggaagtc tactgccatt atagggaacc ttgcttggtta gcttctctag atctctattc 180
taaacaatct gttagtgatg ataaattctg taggagggtc tattctgagc cgtaaacttc 240
ctgtaagggg aaaatgggtg ggttaccaga aataccattg aagcaggggt ggctgtgggg 300
tggaagggtg ggggtatttg cttgagaatt aaaaactacg aaacactttt gtacacaact 360
gattttttta aaaataaaca cattttttaa gatgttgaat ttttcccccc ttattgggaa 420
ttcttaaaaa taaatgcatg catgttttcc cctgaaaaaa aaaaaaaaaa aaaaaaaaaa 480
```

1041

aaaaangaaa aaaaaaaaaa aaaaaaaaaa aagggggggc g

521

<210> 1659

<211> 887

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 1659

```
ctcaaaaaaa aaaaaaaaaa ttaaaaactt cctttttantc gcagagctgg aaaagttgga 60
gttggtttttg gtatacttgg agagctggct ttctaaagtg ctgctttgag gactgttggtg 120
taaagcactt gattcgtctt cccttttgctg gagttatggg cctgggcttt tacactgggg 180
ttctgaagta acaaacaaaag tcagtccaga aatagttgct cagcaatctc attgttacag 240
tgtcgcaaaa tgagctcata ttagctttat tttctgctac caatagagtg ttcctaagta 300
tttaaaagtgt gtgactcctt tcttatagag ccagcaagct gtattggaat cacttttcca 360
gtggttgtaaa tgttattttt gtgggtcagt cagtatactc gtgaatgaca gaaaaacaga 420
tcccaacaat gcaaaagtatt atatgtgtaa aaaagaacag aaaaaagaag ctgccttggt 480
agtaacgggc tctatggttt ttctcatcaa gaggtcatga cgccagtcag atcacactag 540
ccttgggscac agctgcctcc taccacaggg cctgccaggc tctcgggggc atgctgtcca 600
aaggagccct gaaccctgct gacatcacccg tctgttcaa gatgttcaca agcatggacc 660
ctcctccggg tgaacttgaa gttgcttctc aagaatcccc aatgtcagct ggtaagggtga 720
ctttggaaaag tctgtgcttg tctgattgtc tgaaggctgt gaatgcaaat ccatcattgt 780
cctggctcctt cctcagtcac actctctgcc tggagcctgt tggggccctg ctgtgtaggg 840
ataccctgag gggagggtggg tgagcagtgcc cctcacgcct gccatcc 887
```

<210> 1660

<211> 847

<212> DNA

<213> Homo sapiens

<400> 1660

```
gattgtgtct ccagcccctc aggctgaaga cactgccttc cccctacacc tccccagggg 60
tgccgggttac cagcactggg aggccaggcc atgctcacgc ttcatggagg acacagcagc 120
agagaagcts acaaggttgt aaactccatc ctggcattcc gggagaagga atggcagagg 180
ctgcagtcaa acccccacct gaaagagggg tccgtgacct ccgtgaacct gactaagcta 240
gagggtggcg tggcctataa cgtgatacct gccaccatga gcgccagytt tgacttccgt 300
gtggcaccgg atgtggactt caaggctttt gaggagcagc tgcagagctg gtgccaggca 360
gctggcgagg gggtcaccct agagtttgct cagaagtgga tgcaccccca agtgacacct 420
actgatgact caaaccttg gtgggcagct ttagccggg tctgcaagga tatgaacctc 480
actctggagc ctgagatcat gcctgctgcc actgacaacc gctatatccg cgcggtgggg 540
gtcccagctc taggcttctc acccatgaac cgcacacctg tgctgctgca cgaccacgat 600
gaacggctgc atgaggctgt gttcctccgt ggggtggaca tatatacacg cctgctgcct 660
gcccttgcca gtgtgcctgc cctgccagc gacagctgag ccctggaact cctaaacctt 720
tgccccctgg gcttccatcc caaccagtc caaggacctc ctcttcccc ttccaaataa 780
taaagtctat ggacagggtc gtctctgaag tactaacaca aggaaaaaaa aaaaaaaaaa 840
aaaaaaa 847
```

1042

<210> 1661
 <211> 508
 <212> DNA
 <213> Homo sapiens

<400> 1661
 tttctcttcc ccaggtgcct caccttccct tcatgggctt tctgcccgcc tttgggtacc 60
 cctagcgggc ccgaggetca ccctggtttg gagccaggga tgctagtgtc cccggggccc 120
 agcgcagcgc tgatgggaag ggacttttct ccgtggggaa cccaggaccc acttctcyga 180
 ggtgascttt ttttttttct gccgcagtgc ctcacctctc ctccctcaaa gctcaccttc 240
 ccctcatgag ccctctgtcc gcctagaggt accgctagcg gcccgaggca caccctgtgg 300
 ctgaaccagg gactccaggg tccctgcggc ccagcacagg cgctgatggg aagacacgtt 360
 cggttcgtgga ggaccaggc cccgtttctc agtggcgtgg ttttttttct ctgcccgggt 420
 gcctcacctt cctctaattg gccttttgcc cgctttgggg tacccttagc gggccctatt 480
 cgcaccctgc gctcgaacca gggtcgca 508

<210> 1662
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 1662
 gcccagcata gagaggatgg ctgcccaccc tcagctcccc tccttgcttc ctcgagtgtt 60
 ctgactccgc actagccgcg ccctgtagga agaatagggt gtccacctct ccycgggtgt 120
 cgcctagtca ctccagttga agacgggacg cggtgcccga ctcaagagag ccccccagcc 180
 gtccgtgggg aaccacatcg acgcttcttc tcagcctcca gtctccagtt ccaaggatgg 240
 gtcattctcca accmcttgcc ctgcctcagt ttctccatct ccctgctgca gcccgcagga 300
 actggggcacc ctcgagccgt gcatggcccg cggtgcgtcc gaggtcccgg ccgggtcgcg 360
 ccgcagtctt cctcaagtat gcgcggcccc agcgccaggg gaccagcctt gccgccgcct 420
 tgcttgccgc cgcctccagt ctgagcctcc ctgagtactg ggactcagtc acaaaaaaat 480
 caacaacaaa aaacaaaacc ctcccagtggt gtgtccgtct ctcattctcaa taaaagaatt 540
 tatt 544

<210> 1663
 <211> 444
 <212> DNA
 <213> Homo sapiens

<400> 1663
 ggtcggacat gcaaaaagga gttaacaagg aaagatacta tcatggcaca tgtgactgaa 60
 tttcataatg gacacagata tttttatgag atggatgagg tagaagggtga aactttgcca 120
 tcatcctcta caacattgga taatttgact gctaacaagc cttcatcagc tattactgtt 180
 attgatcatt ccccggaaca tagttctccg aggggtaaat ggcaatgccg gattttgtgaa 240
 gatattgtttg attcccagga atatgtaaaa cagcactgca tgtctttggc aagccacaag 300
 tttcatagat acagctgtgc tcaactgcaga aagccttttc ataagataga aacattgtac 360
 cgacattgcc aagatgagca tgacaatgag ataaagatta aatacttctg tgggctttgt 420
 gatcttatct ttaatgtgga agaa 444

<210> 1664
 <211> 1279
 <212> DNA

1043

<213> Homo sapiens

<220>

<221> misc feature

<222> (1273)

<223> n equals a,t,g, or c

<400> 1664

```

tccccgggtcg acccacgcgt ccgcgggacgc gtgggatcaa caaactcatc cgaattggca 60
ggaatgagtg tgtggttgtc attaggggtgg acaaagaaaa aggatatatt gatttgtcaa 120
aaagaagagt ttctccagag gaagcaatca aatgtgaaga caaattcaca aaatccaaaa 180
ctgttttatag cattcttcgt catgttgctg aggtgttaga atacaccaag gatgagcagc 240
tggaagacct attccagagg actgcctggg tctttgatga caagtacaag agacctggat 300
atggtgccta tgatgcattt aagcatgcag tctcagaccc atctattttg gatagtttag 360
atttgaatga agatgaacgg gaagtactca ttaataatat taataggcgc ttgacccac 420
aggctgtcaa aattcgagca gatattgaag tggcttggtt tggttatgaa ggcattgatg 480
ctgtaaaaga agccctaaga gcaggtttga attgttctac agaaaacatg cccattaaga 540
ttaatctaata agctcctcct cggatatgtaa tgactacgac aaccttgag agaacagaag 600
gcctttctgt cctcagtcac gctatggctg ttatcaaaga gaagattgag gaaaagaggg 660
gtgtgttcaa tgttcaaata gagcccaaag tggtcacaga tacagatgag actgaacttg 720
cgaggcagat ggagaggcctt gaaagagaaa atgccgaagt ggatggagat gatgatgcag 780
aagaaatgga agccaaagct gaagattaac tttgtgggaa acagagtcca atttaaggaa 840
cacagagcag cgcttccttg ctgtaaatcc tagacttgaa agttttccag tattgaaaac 900
ttcaaagctg aatattttttt atttctaagt atttaaattgt tctaacagat cagaacatga 960
aatgccctcc taaatgtcag ctgttgtcac acagtagctc caacactttg agcattttta 1020
agggagtggtg ctcatttcac tagagacaaa tctttaagaa tagttctaaa attgggcttg 1080
tgattttccat ttctgatgtc tccagattgg caccctttc tagttcaatg cctcacgaga 1140
tttgccaggg gcattccaagg caaacaatcc caatctttct atataaaatg tattcaagca 1200
aacatcaaata aaattttctg gatattttaa aaaaaaaaaa aaaaaggggg gggccttaaa 1260
gaaccaagtt tantttggg 1279

```

<210> 1665

<211> 2509

<212> DNA

<213> Homo sapiens

<400> 1665

```

cggctcaggt gctggcggttc cgcgcgggcgc cgcctctgct gcgggycggg ggagccagac 60
gaggtgctgc cgggtaggaa aaaatccagg gctcattcat accccaggtc acgattccgg 120
ggtcgcccccc agcacttctc cgcgcgggtgc atcaacctga aaaagccock tcttcctgga 180
aacctcctct ctcagcgtt tcaacgggga aactgatcag ctgacaccag cccagtcct 240
gcgagggggcc ggcgaccttt gacctttctc caaargggac cacctggctt catgtgtgga 300
tttccacggc tcttgccag aggcgggtac actgtgttcc aatgtgccac ggaactcacg 360
cagtggcact ttgtggcttc atgaaggaag aggcaggcca cgcaacactt cctccccaa 420
ccaaggagaa gtatcacttt tagaggcaga ggagcggaag gcagtgggtg tgacccaaa 480
tgccatttgt taaagactgt tggagcagaa ctactgagaa aaaccaggca ttgtatcttc 540
agttgtcatc aagttcgcaa tcagattgga aaagctcaac ttgaagcttt cttgcctgca 600
gtgaagcaga gagatagata ttattcacgt aataaaaaac atgggcttca acctgacttt 660
ccacctttcc tacaaattcc gattactgtt gctgttgact ttgtgcctga cagtgggttg 720
gtggggccacc agtaactact tcgtgggtgc cattcaagag attcctaaag caaaggagtt 780
catggctaata ttccataaga ccctcatttt ggggaaggga aaaactctga ctaatgaagc 840

```

1044

```

atccacgaag aaggtagaac ttgacaactg cccctctgtg tctccttacc tcagaggcca 900
gagcaagctc attttcaaac cagatctcac tttggaagag gtacaggcag aaaatcccaa 960
agtgtccaga ggccggtatc gccctcagga atgtaaagct ttacagaggg tcgccatcct 1020
cgttccccac cggaacagag agaaacacct gatgtacctg ctggaacatc tgcattccctt 1080
cctgcagagg cagcagctgg attatggcat ctacgtcatc caccaggctg aaggtaaaaa 1140
gtttaatcga gccaaactct tgaatgtggg ctatctagaa gccctcaagg aagaaaattg 1200
ggactgcttt atattccacg atgtgacctg gtacccgaga atgactttaa cctttacaag 1260
tgtgaggagc atcccaagca tctggtggtt ggcaggaaca gcactgggta caggttacgt 1320
tacagtggat attttggggg tgttactgcc ctaagcagag agcagttttt caagggtgaat 1380
ggattctcta acaactactg gggatgggga ggcgaagacg atgacctcag actcagggtt 1440
gagctccaaa gaatgaaaat ttcccggccc ctgcctgaag tgggtaaaata tacaatggtc 1500
ttccacacta gagacaaagg caatgagggtg aacgcagaac ggatgaagct cttacaccaa 1560
gtgtcacgag tctggagaac agatgggttg agtagttgtt cttataaatt agtatctgtg 1620
gaacacaatc ctttatatat caacatcaca gtggatttct ggtttgggtg atgaccctgg 1680
atcttttggg gatgtttgga agaactgatt ctttgtttgc aataattttg gcctagagac 1740
ttcaaatagt agcacacatt aagaacctgt tacagctcat tgttgagctg aatttttcct 1800
ttttgtattt tcttagcaga gctcctgggt atgtagagta taaaacagtt gtaacaagac 1860
agctttctta gtcattttga tcatgagggt taaatattgt aatatggata cttgaaggac 1920
tttatataaa aggatgactc aaaggataaa atgaacgcta tttgaggact ctgggttgaag 1980
gagatttatt taaatttgaa gtaatatatt atgggataaa aggccacagg aaataagact 2040
gctgaatgtc tgagagaacc agagtgtgtc tcgtccaagg tagaaaggta cgaagataca 2100
atactgttat tcatttatcc tgtacaatca tctgtgaagt ggtggtgtca ggtgagaagg 2160
cgtccacaaa agagggggaga aaaggcgacg aatcaggaca cagtgaactt gggaatgaag 2220
aggtagcagg aggggtggagt gtcggctgca aaggcagcag tagctgagct ggttgcagst 2280
gctgatagcc ttcaggggag gacctgccca ggtatgcctt ccagtgatgc ccaccagaga 2340
atacattctc tattagtttt taaagagttt ttgtaaaatg attttgtaca agtaggatat 2400
gaattagcag tttaacaagtt tacatatata ctaataataa atatgtctat caaataacctc 2460
tgtagtaaaa tgtgaaaaag caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2509

```

<210> 1666

<211> 421

<212> DNA

<213> Homo sapiens

<400> 1666

```

gtgagtgtgg ctgcgggcct tgctgcacgg accccatggg agctgtgagt gggtcagact 60
tccctgggtc aggagacaga cagcggacgg atcccaggct gggcagctgg agggaggkrc 120
ccggggcgct gggcagccgg gctctacaca gtcagcagct ccggggccgc aggccggcgg 180
ggtccacaca ggctggccgg gctgggcctc cttggagcct gctacgccct cgtgggcacg 240
tggaagaagg ccactgtct ccacacgcca gccacagggg agccctggcc aggcgcccag 300
ccaggggagc gtgtgcctgg gatgggtcac agaaccagcg ggcacctgtg aggcaggcca 360
gcaccgtggg gctgtgggaa tcgctcttat ttatatTTwa acmccttgra ttttcaaaaa 420
a 421

```

<210> 1667

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1045

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 1667

```

gggacatcta cagccactgt gtaaatagaa ctgcctaata ttgagagtgg ttttagcat 60
taggttttagc aaggggggaga tccgtgggtt gtgcgtcagc tttgggtgaa ttttgtttct 120
accctgtcac ggggaaagtt cgggttgagt ccaggagtgc acactgctgc tgccacccaa 180
tgcgctacat atcacttttt tttgntttgt tttgttttgt ttttaaaaga tcattttatc 240
ttaaaaagga aagctgatcc aagtaaacac gaaagtattt gacacacccc acagatttta 300
catgtgtgta aatgtttcac tttaaaatct ctatgacaga tacacaggaa acatgagatg 360
gtttctgcta atgagtggcc cttgagtaca cacttagatg ctgtctgccc tgtaaatattg 420
natctggtgc cccanggcac tcaactcttc tagcacaggc tgaaaacacg tgtgtgtcaa 480
ctgaggttca caccacttg gngaattgagc ctgntttctt tccca 525

```

<210> 1668

<211> 1349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 1668

```

tcccggtcna cccacgcgtc cggcgggcgcc gcgcgaaggt tcagcaggga gccgtgggccc 60
gggcgcgccc gttcccggca cgtgtctcgg cactggcag cgcgccctggc cctgggcttg 120
gaggcgccgg cgccctggat ccgcgggccc tggctgccga gtcggtgtcg tccttgacca 180
tcgccgacgc gttcattgca gccggcgaga gctcagctcc gaccccgccg cgccccgcgc 240
ttcccaggag gttcatctgc tccttccttg actgcagcgc caattacagc aaagcctgga 300
agcttgacgc gcacctgtgc aagcacacgg gggagagacc atttgtttgt gactatgaag 360

```

1046

```

gggtgtggcaa ggccttcatc agggactacc atctgagccg ccacattctg actcacacag 420
gagaaaagcc gtttgtttgt gcagccaatg gctgtgatca aaaattcaac acaaaatcaa 480
acttgaagaa acatttttgaa cgcaaacatg aaaatcaaca aaaacaatat atatgcagtt 540
ttgaagactg taagaagacc tttaagaaac atcagcagct gaaaatccat cagtgccagc 600
ataccaatga acctctattc aagtgtaccc aggaaggatg tgggaaacac tttgcatcac 660
ccagcaagct gaaacgcacat gccaaggccc acgaggggcta tgtatgtcaa aaaggatggt 720
cctttgtggc aaaaacatgg acggaacttc tgaaacatgt gagagaaacc cataaagagg 780
aaatactatg tgaagtatgc cggaaaacat ttaaacgcaa agattacctt aagcaacaca 840
tgaaaactca tgccccagaa agggatgtat gtcgctgtcc aagagaaggc tgtggaagaa 900
cctatacaac tgtgtttaat ctccaaagcc atatcctctc cttccatgag gaaagccgcc 960
cttttgtgtg tgaacatgct ggctgtggca aaacatttgc aatgaaacaa agtctcacta 1020
ggcatgctgt tgtacatgat cctgacaaga agaaaatgaa gctcaaagtc aaaaaatctc 1080
gtgaaaaacg gagtttggcc tctcatctca gtggatatat ccctcccaa aggaaacaag 1140
ggcaaggcctt atcttttgtt caaaacggag agtcacccaa ctgtgtggaa gacaagatgc 1200
tctcgacagt tgcagtactt acccttggct aagaactgca ctgctttgtt taaaggactg 1260
cagaccaagg agcgagcctt ctctcagagc atgcttttct ttattaaaaat tactgatgca 1320
gaacatttra aaaaaaaaaa aaaaaaaaaa 1349

```

<210> 1669

<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<400> 1669

```

gcgttctgca ggtgggcgtc gcgccgactt accaacaacc gggtcggggg ctcccggaag 60
tgctcttgcg gcttactgcc tggcacagct gtcatctctc tctacagaag agcttctcct 120
catcaactgg ggatgattac agttcttcct aaaaaaggat ggctgctctt tttctaaaga 180
ggttaacact acaaactgta aagtctgaaa atagtgtgat tagatgtttt ggtaaacaca 240
tcctgcaaaa gacagcacca gcacagtgtt cccctattgc ttctgcccc aagactctcct 300
tcctaattca tgcaaaagcc tttagtaccg ctgaagacac ccagaatgaa ggaaaaaaga 360
caaaaaagaw taaaacagct tttagtaacg ttnggaagaa aaattagtca gcgagttatt 420

```

1047

tcacttatttt grtgagragg gcaatggttt tggggaacng gcaccgggcc aatgtggntt 480
 gganttt 486

<210> 1670

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 1670

tattaacata atattgagac gtaatacgtc gaacagtgga ggagcggag cttagctag 60
 aaatggagaa acaagaattt gaacaactga gacaggaaat gggmgaggaa gaggaagaaa 120
 atgaaacctt tggattgagc agagaatatg aagaactgat caaattaaaa aggagtggct 180
 ctattcaagc taaaaaccta aaaagcaagt ttgaaaaaat tggacagttg tctgaaaaag 240
 aaatacagwa awaaatagaa gaagagcgag caagaaggag agcaattgac cttgaaatta 300
 aagagcgaga agctgaaaaat tttcatgagg aagatgatgt tgatgttagg cctgcaagaa 360
 aaagcgaggc tccattttact cacaaagtga atatgaaagc tagattttgaa caaatggcta 420
 aggcaagaga agaagaagaa caaagaagaa ttgaagaaca aaagttacta cgcattgcagt 480
 ttgaacaaaag ggaaattgat gcagcactac aaaagaaaag agaagaggag gaggaggaag 540
 aaggtagcat catgaatggc tccactgctg aagatgaaga gcaaaccaga tcaggagctc 600
 catggttcaa gaagcctctt aaaaacacat cagttgtaga cagtgcagcca gtcagattta 660
 cgggttaaagt aacaggagaa cccaaaccag aaattacatg gtgggtttgaa ggagaaatac 720
 tgcaggatgg agaagactat caatatattg aaaggggaga aacttactgc ctttacttac 780
 cagaaacttt cccagaagat ggaggagagt atatgtgtaa agcagtcaac aataaaggat 840
 ctgcagctag tacctgtatt cttaccattg aaagtaagaa ttaatcactc tttttatctt 900
 ttattctatt aatttttttt tccctaaaaat cactttttctt cttctctttt ttagctgatg 960
 actactagct cccctccctt ctccttgga ctttctcttt cactccaact ttcttactac 1020
 atccatcttt tctgtggcgg ggccaaaaaa ggaaaccagg agtgccacta tgctgacttc 1080
 ttattccttt tcataacagt cttcaaagca cagctcatct aaagaatgcc tacttctttt 1140
 ccaaataagc atcagattta tgcctatta tgcagtaaca gtcaataaaa tgtacttatg 1200
 ggggggaatt actcaattat tctatcagaa cctattataa agactgtatt tcccatagac 1260
 gtttacagca actatgttta aaaaacaaaa acaaaaaaaaa aacacacaaa cctaagtaga 1320
 atacattatt ttgcatgaag gaatgtcatt tctgagcttt ttacacctaa aattaggctg 1380
 aaatagctga gataattaat ttggaaccta tcaatttgag tggacttttt ctttagtagt 1440
 acaccatttt gggtgttgta gtttcaaagt ctttctgaag cagatatatt gggattggag 1500
 cgggggtgggg aaaactgtca ctcccttcag aggaaaaggg gaggagcatg gagaaaaaca 1560
 aaaattaaaag gacttaaaga atggctatac agtgttgagt gttgaggata ttaaacaatgt 1620
 tatttttcaa acgtatgtaa tatatatata atttataaag caaatttatg ttgtgatctt 1680
 gcctgaacaa atttatattt aatgaaaaaa ctttctatta atagtccacg caagagaaaa 1740
 cactttcaac atagtccaag gcttcaagat ctaagtgtat cagacttagg gaaaaagtgg 1800
 cacaaccttc gattttaaata tctagtcttt aaaatgagtt tgtaaataat tagctattac 1860
 gttctattaa gttgttttat attttaattt tctggaagac aattttattt tacaacgtga 1920
 acccaaataa agtaacttct gtatttaaaa gtcaaaaa 1957

<210> 1671

<211> 815

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

1048

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (721)

<223> n equals a,t,g, or c

<400> 1671

tggcattatg	ggatgtatgg	ccaggctntt	ccntgccagg	aantttattcc	aggcatgggtg	60
gaatccttca	tcnggaatgg	atgggttttcc	ntttatgccca	aaaggcccat	gtctaaccct	120
ttattatttaa	ttccagcagc	atggggactg	gtaccagtgg	ttcctcaaaa	gtgtggaccc	180
cggaccacgc	cagtgrgagc	atcatctggg	aacttgggta	aaaaatgtaa	attattaggt	240
cctaccttaa	acctcctaaa	tcacaagctt	tgctttaaca	agcaacctgc	actttaaaca	300
aactctctag	gtgattctgg	tgcatgctaa	agtttgagcy	tcttataata	ammtasaaac	360
tgtaccacaa	ctgataatta	tagtctcctt	tagggataaaa	tcaattatta	gttacaaaatt	420
aggcaataaaa	aggcaaaaata	ctagagaaaa	taaccaagag	attaagtttc	ttcacatatc	480
agtgaaaaaa	agtaaagaac	attttatggt	gaattwgaga	tatacagaga	attacatttta	540
acattcacca	taaaaagtaa	agaacatttt	atgggtgaatt	tgagatatatac	agagaatttac	600
atttaacatt	cactgatgtt	tcattctgtca	gtagaaagaa	ggccgnaaga	aagggtgatcc	660
caaactgggt	aatgtcgagt	aagaggaaatg	taaaatggca	aaaccaggaa	gcaaaaatta	720
ngaagcaaga	gctgctctaa	aggaaaagga	aaagtctctt	cactaacaca	gaagagcgca	780
ggagctgcag	ggccgggttaa	tcaaccaccc	agata			815

<210> 1672

<211> 832

<212> DNA

1049

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 1672

```

ttgcaggtagc  cgggtccggaa  ttccccgggtc  gacccacgcg  tccgagggttn  gaaggcgaga  60
tctgattctt  caccctcac  ccctgnccgg  gctgggtgaca  ctgaaggcaa  agactgggac  120
accaagggtc  cagaactggc  tcgtgcccc  ctctgtgcgg  catgagcagc  gccccgcgc  180
sgggcccgcc  gcccgccagc  ctcacgctct  gggacgagga  ggacttcmag  ggccgtcgct  240
gtcggctgct  aagcgactgt  gcgaacgtct  gcgagcgcg  aggcctgccm  aggggtgcgt  300
cgggtcaagg  ggaaaacggc  gtttggttg  cctttgagta  cccgacttcc  agggacagca  360
gttcattctg  gagaaggagg  actatcctcg  ctggagcgcc  tggagtggca  gcagcagcca  420
caacagcaac  cagctgctgt  ccttccggcc  agtgcctctg  gcgaaccaca  atgacagccg  480
tgtgacactg  tttgagggg  acaacttcca  aggctgcaag  tttgacctcg  ttgatgacta  540
cccatccctg  ccctccatgg  gctggggcc  caaggatgtg  ggttccctca  aagtcagctc  600
cggagcgtgg  gtggcctacc  agtaccagg  ctaccgaggc  taccagtatg  tggttgagcg  660
ggaccggcac  agcggagagt  tctgtactta  cgggtgagctc  ggcacacagg  cccacactgg  720
gcagctgcag  tccatccgga  gagtccagca  ctaggctcca  cggccccaga  caccttccct  780
gaggacactc  aataaagggt  cctgaatctt  cctgccaaaa  aaaaaaaaaa  aa  832

```

<210> 1673

<211> 591

<212> DNA

<213> Homo sapiens

<400> 1673

```

gcaagaagga  cttctttggg  aaatcagacc  ccttccttgt  gttctacagg  agcaatgagg  60
atggcacgtt  caccatctgc  cacaagacag  aggttgtgaa  aaacacgctg  aatcctgtgt  120
ggcagccctt  cagcatccct  gtgcgggctc  tgtgcaatgg  agactatgac  agaacgggtg  180
agattgatgt  gtacgactgg  gaccgggatg  gaagccacga  tttcattgg  gagttcacca  240
ccagctaccg  ggagctgagc  aaggcccaga  accagttcac  agtatatgag  gttcttaacc  300
ctcgaagaa  atgtaagaag  aagaaatatg  tcaactcagg  aactgtgacg  ctgctctcct  360
tctctgtgga  ctctgaattc  acttttggtg  attacatcaa  gggagggaca  cagctgaact  420
tcacagtagc  cattgacttc  acggcttcca  atgggaatcc  tctgcagcct  acctycctgc  480
actacatgag  tccctaccag  ctacagcgct  atgccatggc  cctcaaggca  gtgggagaga  540
tcatccagga  ctatgacagt  gataagctct  tcccagctta  tggctttggg  g  591

```

<210> 1674

<211> 616

<212> DNA

<213> Homo sapiens

<400> 1674

1050

```

agttttatca tctgtaaaaat ggagataagt attgtcagag taaacatgaa gattagaaaag 60
aacacttaat gtgctggggcc ttttataggt taacactgac atctcaggct gaactatata 120
cattttcctt cacaaccata tcaatcctta taaactatgg atttatgctc cttaaaacaa 180
tatataatgc tgatcactac tataaatgcg tggttttaac caactgtact gaaacagctt 240
tgagtttata ttctgttttg atatttggag aaaacaacaa gtgctctcaa gagyayttgc 300
ttagaggccg gctgtgtgag tggataactt tgaaaagctgc ttttgagacg ccagtgtctg 360
gcatttcctg cattctggcc tggaggccgg acgtgaatct gacttctagt aaaaatacac 420
ggttcccttg acaaagtcga gctgtttatc ccagagactg cacaattttc cgttgatagg 480
catggaccaa tgctaactgg aaatcattgc aaaaagtttt tttgtcgggc ggaggggtgtg 540
gtgttaagat aaacagtgtg caacagaaga aattaaaact ggaagaaatt aaaggggtttt 600
ttttagaaaa aaaaaa 616

```

<210> 1675

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (622)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (664)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (666)

<223> n equals a,t,g, or c

<400> 1675

```

aaaacgaggc agaacaggac gtgattttta acatttgctg ggctgtgcc aattcctctg 60
gcagtttagc cagaggaagc tcccttcgct ctgggggaacg gttctgtgtc tcattgggtc 120
atttctcttg agctcttcgg cagtcaaatt tgcttttttg aaaacttaag ctggggggcgc 180
ttgcaagtag taaatagagg agttgggggtg gggggggggcg ttcaytatct aggtttgtta 240
ggggcctcac ggttttcggg tcggagaatc cactgcgtgc tcctcctctt cccctggccc 300
ggactccag cttcattgtg tcatcccgcc tgggggaaaag caccacccg gatcgtcagc 360
ccactccag ccagcctagc ctgsaagtct cagaaaaaaa gcaaaactgg gagaaaatag 420
aagggtgtgag ggaggagtgc acccctaggc ccaccataa caaaaggctg ttattccgaa 480

```

1051

```

agggctgagg aaggttttaa aactgctcgc ccgagaaggg tggagcctac acacaggaaa 540
tgtcttaact gtcctctctt ggacaacgta aagtttttaa attttaaaaa aaatcaatgt 600
ncccccttgat attttttacct tnataccctg tttcttaang gaaaatccct tcaaaagggg 660
taancnt 667

```

<210> 1676

<211> 831

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 1676

```

ttaagaatt gttggcatct gtattcttga ttaataccct tgtttttcaa gatgtacttg 60
cagtaaatat atttgctttt taattcttgg ttagcagttg aaatgggtgag tttcagaagg 120
ttaaaaagg aatttttgtct taagtgaata aaacaaatta ttataacagc atcttataaa 180
ttagggatcc caagctgatt tctaaacatt tctactgagt aaagaaatta taccaaatat 240
ttgattagct cattctatatt aattttttgnt tttgntttgt atcatggatt aggtactaga 300
accacagaat gtcgatcctt ctatgggttca aatgaccttt ctagatgatg ttgktcactc 360
tttgttaaaa ggtgaaaata ttggcattac atcacgacgc aggtctctgtg ccaatcaaaa 420
cgtcaacgct gttcacagcc attatacacg tgcccaagca aatagtccca gaccagcaat 480
gaactcccaa gctgctgtac caaaacagaa tacacaccag caacagcaac aaagaagtat 540
ccgtccaaat aagaggaagg gctcagatag cagtatacca gatgaagaka agatgaagga 600
ggaaaaatat gattatatat cacgaggaga aaatcctaaa ggtaaaaaca aacacttgat 660
gaataaaaaga aggaaacctg aggaggatga aaagaaacta aatatgaaaa gacttcgaac 720
tgacaatggt tcagactttt ctgagagcag tgactcagaa aattcaaata agagaataat 780
agataattcc tcagaacaga agccagagaa tgaawtgaaa aaaaaatact t 831

```

<210> 1677

<211> 1319

<212> DNA

<213> Homo sapiens

<400> 1677

```

ggctggcttc tgcgtggtgc agctgcgcac gtgttttcagc cggcagcgct ttaagatttc 60
cgggggatgga atccgaaatg gaaacgcaga gcgccrggc agaggagggc tttacccagg 120
tcacccgcaa ggtggccgac gggcgaagaa acgacaggct gaacagctgt ccgcagcagg 180
agaggggcgg gatgcgggcc gcatggacac agaggaggcc aggccggcga agaggcccgt 240
cttcccaccc ctctgtgggg acgggctcct gagtgggaaa gaagaaacaa ggaaaattcc 300
agtcccagct aacagatata caccattgaa agaaaactgg atgaagatat ttactcctat 360
tgtggaacat ttgggacttc agatacgctt taacttgaaa tcaaggaatg tagaaatcag 420
gacttgtaar gaaaccaagg atgttagtgc tctgacaaaa gcagctgatt ttgtgaaagc 480
ttttattctc ggcttttcagg tggaggatgc acttgccctc atcaggttgg atgacctctt 540

```

1052

```

cctagagtct tttgaaatta cagatgttaa acccctaaag ggagaccatc tatccagggc 600
aataggaaga atcgctggca aaggaggaaa aaccaaattc accatagaga atgtgacacg 660
gacaaggata gttttggctg atgtgaaagt tcacatcctt ggctccttcc aaaatatcaa 720
gatggcaaga actgccattt gcaacctaata cttgggaaat cctccttcca aggtttatgg 780
caatattcga gctgtggcta gcagatcagc agatcgattc tgatttcaag tcagagactt 840
tttatcttgc ctttggactc tggtgaaaaa tactttacag tggtcgggtca caagaaacca 900
tctgaacaat ttcagtcatt tgaagcctcc gtcccttctt ccattctcag ccagaagcat 960
aaacagaaaa gaaagattta agaggattca cactcaacag gtttttaggat aatttaaata 1020
tcaaaaaattg attgttatac ttacacatta ggtataaatt atcatttata tgaaatcaca 1080
tgtagcagat tgcatagtct gtaatcctct cagagggaaa cttcttggtt aaacagctct 1140
atatggattt atacttttat atttataaat ttataacttc atacaaaatt ataaacattt 1200
ctttataaat tgtaatttaa tagattatct cagaaaaacc tctctgaatg atgacccttc 1260
cttaataactg ggtgatgtgt gaatatttgt ttgttggcag acaggggtct actttgtca 1319

```

<210> 1678

<211> 470

<212> DNA

<213> Homo sapiens

<400> 1678

```

gcatacacag gaatgtgtct tctaagatat gccactgatt acatgtgagt acctgagaga 60
gaagaaggcg aaggagaaga aactccaaat tttagccact ggggccacc gagaaattgtt 120
gagattttta gagaacccaa tgtgtcycct gggatcagta ttgttgggtg acaaactgtt 180
ataaaacgtc taaagaatgg agaggagcct taaagggtata ttcatacaaac aagtttttaga 240
agacagtcca gcagggaaga cgaacgcact taaaactgga gataaaaatac ttgagggtgtc 300
tgtagtagat ttgcagaatg cctcacacag cgaagcagtt gaggccatta agaatgcagg 360
aaaccctgtg gtgttcattg ttcagagttt gtcacccact ccacgagtca ttcctaattgt 420
acataacaag gccacaacaaa tcaccggtaa ccagaaccag gacacccaaa 470

```

<210> 1679

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1120)

<223> n equals a,t,g, or c

<400> 1679

```

aattcggcac gaggtgacca ggagtcgacg tgtgcagaag tcctggtaat ctggtccttg 60
ttcccgtctg gataccagct tccttcagca gcgcaggcgg tggtccttga ggcccgtgga 120
aggagtcaaa cttgcgggaa ttttgcagtt tatctgcagg gctgttggtt ccagcaagac 180
ccaaagctag aaaaggagga ggaagaaact gacccgatca gtgccagaag tcattgtatt 240
caaagaagaa taagcaagaa agaaaagaag gaaggaagag aggtagacag atacaagatg 300
aaatcctgtc aaaaaatgga aggaaaacca gaaaatgaga gtgaaccaa gcatgaggaa 360
gagccaaagc ctgaggaaaa gccagaagag gaggagaagc tagaggagga ggccaaagca 420
aaaggaactt ttagagaaaag gctgattcaa tctctccagg agtttaaaga agatatacac 480
aacaggcatt taagcaatga agatatgttt agagaagtgg atgaaataga tgagataagg 540
agagtcagaa acaaacttat agtgatgcgt tggaagggtta atcgaaacca tccttaccct 600
tatttaattg agtttacctt gatttttatc tgatattaac aataccatat agcttgcttt 660

```

1053

```

ttatttagcat ttctgatata tcctttgtcc atattttctac ttataacctg ttgctattaa 720
tgggttttaga tgtatctctt gttatctgca tctcattggt tattgtattt tgaaccaatc 780
tacaagtctc tgtcttttaa taaaagaact ttacacattt gtaaaaaaga ggttcttggg 840
aagatataaa atggaaaaag gctaagtaat atgtgaatat catatTTTTg aaaggtaaaa 900
agtacatttg tatattacat atatggacat aacttgtgaa ggatgaaaga aagtacagcc 960
tctcgggtggg gggattatga atgatttttc tccttttgcg tgtttgtatt ttctatatcc 1020
ctaaaattaa cacacattat tattgctaga ataataaaag ttttataaaa aagaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggg 1126

```

<210> 1680

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<400> 1680

```

accctcacta aagggacaaa agctgggggt ccaccgcggg ggcgncggct ctagaactag 60
tggatccccg gggctgcagg aattcggcac gagaaatggg catgcctcta cggatcagtt 120
aagtgaagaa aaggagaaaag gggcatgtgg ctgttgagaa gtcaagtaag ygacatagta 180
gttcagggtg cccatgcctg ggatcttctc tatgattgat acatggcaca gtgagagatt 240
aatgggcatg gtgtacaaat tgcttctcac catccccatt agacctacga ataaagcatc 300
cgggttctaaa attaatTTgt tgcagctttg taaatatTTc ttttaagattc agcctgagag 360
ttaggrgaaa tatttcagag ccaaaagtgc cttatacaac cttagcctat tatagtraak 420
cattcaaggg attcagaatt tttggcagtc acargaagag tgtatttatt atgtagratg 480
gaatgagggg acctgtcacc ctgcccttaa ntgtaggtag ggccccagag tcttaccatt 540
ttaaggatct ttaccatgcc aggtttataa aaaccgggcc accaggtctt tcaatccagg 600
atTTtgaaag gcttcattgc ccatagggtg 630

```

<210> 1681

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<400> 1681

```

gcatagaggc atagcatggt tatgactctg gtttctttct cttcagggtg ttttatacca 60
ttactgttaa tgttatttta acttggcatg tataacattg ccatatagag tagagtagaa 120
agttgcaaag tttgatagtt tacagagtta aacactaaac atatccaaag tccatttaga 180

```

1054

```

gttttgggtg ttgtattttg ccatttttgt gatgtgtggc cttttattct gtaatctctt 240
ctaaataaaa cattgaacat ccagcaaaca taaaacctgc ctcatttgaa aaggaatttc 300
aaaattccaa ttaataggat tctctagaga gttttgtact ttaatatattg tcagtgtagt 360
gtcaactctg ttaccaaggt agcttcttgg taaatccagt agctactcaa tgctatttgt 420
actgaataaa gcaattatta acatgatact tcccactatt gattaatgca atattgatat 480
at ttggcggt gtggtagctg ttgcagaatg aatagtgtaa tgaccataag attgcttgga 540
aaattgtaat mcagatatcc acaatgaatt ctttnccaaa attttttttt ccgatgataa 600
aagtagtaga tg 612

```

<210> 1682

<211> 1194

<212> DNA

<213> Homo sapiens

<400> 1682

```

gcaaccaggt ctacttttta atggctttca taacactaac tcataagggt accgatcaat 60
gcatttcata cggatataga cctagggctc tggaggggtg gggattgtta aaacacatgc 120
aaaaaaaaaa aaaaaagaaa ttttgtatat ataaccattt taatctttta taaagttttg 180
aatgttcatg tatgaatgct gcagctgtga agcatacata aataaatgaa gtaagccata 240
ctgatttaat ttattggatg ttattttccc taagacctga aaatgaacat agtatgctag 300
ttatttttca gtgttagcct tttactttcc tcacacaatt tggaatcata taatataggt 360
actttgtccc tgattaaata atgtgacgga tagaatgcat caagtgttta ttatgaaaag 420
agtggaaaag tatatagctt ttagcaaaaag gtgtttgccc attctaagaa atgagcgaat 480
atatagaaat agtgtgggca tttcttcctg ttaggtggag tgtatgtgtt gacatttctc 540
cccactctct cccactctgt tttctcccca ttatttgaat aaagtgactg ctgaagatga 600
ctttgaatcc ttatccactt aatttaatgt ttaaagaaaa acctgtaatg gaaagtraga 660
ctccttcctt aatttcagtt tagagcaact tgaagaagag tagacaaaaa ataaaatgca 720
catagaaaaa gagaaaaagg gcacaaaggg attggcccaa tattgattct tttttataaa 780
acctcctttg gcttagaagg aatgactcta gctacaataa tacacagtat gtttaagcag 840
gttcccttgg ttgttgcat aaatgtaatc cacctttagg tatttttagag cacagaacaa 900
cactgtgttg atctagtagg tttctatttt tcctttctct ttacaatgca cataatactt 960
tcctgtattt atatcataac gtgtatagtg taaaatgtga atgacttttt ttgtgaatga 1020
aaatctaaaa tctttgtaac tttttatata tgcttttgtt tcaccaaaga aacctaaaaat 1080
ccttctttta mwamaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgccggt tttta 1194

```

<210> 1683

<211> 1014

<212> DNA

<213> Homo sapiens

<400> 1683

```

acacctccaa cagactctca ttaagattca gttattttccg ctccccagcc ccacactcct 60
ttcagattat cgttcatggg cgtaagtctc ttctcagagt taacaagtct ttggtagtca 120
tcctctgtcc aaatattgta tattattaaa aggcattttt aataattacc agaattagct 180
caaaccttta gggatctttc agccatgatt attaaggata tgtatgtgaa tttttgggaa 240
acctctcggt gctggatgcc agcctacagc aggggtccatt gctggcaatg gatggcccag 300
gaagggtccc agagatcact cacttgaaaa atgaggggtcc catgaaagta tttggttgcc 360
ttctgatgcc acttcttctc actttacttt ttgcttattt tcaaaatatt ataaaatgtc 420
aacatataat ttcagaaagg caggtggggg taggggagaa atgaatgaat aaattctcta 480
ggtatttaga aagataagaa actgaagacc gagagactaa taaggctgct tacctaatta 540

```

1055

```

ttataatcat ttcatttgcc tgaatgtttt aagcaggaag tagaaatact ttggctgccc 600
aaatgtatct tttgttcctc ttagaagtaa aataagctac atacaataaa aatttatttc 660
agaaccccat ttctagaaaa taccacccca gagtcctcat ttgatagcat ctgtctcctg 720
cagacctcat cattccacag tatttccttg ccatgtaaaa atcctgactt tgtgcgtata 780
taaaatgtat gcaattaagt ctgttttaaa gatattttaag ttttaaagac tgtattttgt 840
tgacacatac tttgtgcagt ttttatgtat gtatgtatta taaaaaaagt taagggttaa 900
aacatctcat ttaatagtga gttcactatt tttttttttt tgtctctggg ttgtaattta 960
ataatcttca aacaaaatgt ttacgaaaaa tgccaaagat tctaaatctt aaaa 1014

```

<210> 1684

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 1684

```

ggaaaagcac ctacaagaga gctgcatgga gctgtgggtg catttcctgt taccaccagg 60
gcatcccaga atgctgacaa agagaaaact aagaccttcc cactctgatt tgttacatgt 120
cataacacca agcaagtgcg agaggagaca attatggggc ccagaggaag gtgcctgtat 180
catgtagaca aaatccaaag cagcttgttt cagacaaaac attttgcttt ggaaactttt 240
gaaacttcca tggccgttga atatagcaga gatgatctaa aaattttaga agcgggttgag 300
gtacccgtgg taggggcaag gcatgggagt ggtgatcctt aaggggcttg tcttttagttt 360
gagggccaca cacagaggag gtgggcagaa aactgagggtc tycccagagc agcttttycag 420
acnaaaaaaa a 431

```

<210> 1685

<211> 569

<212> DNA

<213> Homo sapiens

<400> 1685

```

gcggacgcgt ggggttgacta ttctgaggac aagagtagtt gggacaacca gcaggaaaaac 60
ccccctccta ccaaaaagat aggcaaaaag ccagttgcca aaatgccccct gaggaggcca 120
aagatgaaaa agacaccgga gaaacttgac aacactcctg cctcacctcc cagatccccct 180
gctgaaccca atgacatccc cattgctaaa ggtacttaca cctttgatat tgacaagtgg 240
gatgacccca attttaaccc tttttcttcc acctcaaaaa tgcaggagtc tcccaaactg 300
ccccaaacaat catacaactt tgaccagagc acctgtgatg agtccgttga cccctttaag 360
acatcctcta agacccccag ctcaccttct aaatccccag cctcctttga gatcccagcc 420
agtgctatgg aagccaatgg agtggacggg gatgggctaa acaagcccg ccaagaagaag 480
aagacgcccc taaagactga acatttargg tgaaaaagtc gccaaaacgg tstyctytyt 540
ctgatcacyt tccaggaccc acccaagtt 569

```

<210> 1686

<211> 922

<212> DNA

<213> Homo sapiens

1056

<220>
<221> misc feature
<222> (904)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (912)
<223> n equals a,t,g, or c

<400> 1686
cctcatagca ggcattccaac acggctgcc a ggatatcggg gcccgccagcc tgtctgtcct 60
tcgggtccatg atgtactcag gagagctcaa gtttgagaag cggaccatgt cggcccagat 120
tgagggtgggt gtccatggcc tgcactctta cgaaaagcgg ctgtactgag gacagcgggtg 180
gaggccgagg tggtggaggg gatgcacccc agtgtccact tttgggcaca gcctccctcc 240
ataactgagt ggtccacaga tttgcaactac ggggttctcca gctcctttcc aggcagagag 300
gaggggaggt cctgagggga ctgctgcccc tcaactcggca tccccctgcag agtcaggact 360
gctcccgggg ccaggctgcc ctgggagccc ccctccgagc ccagccagcc aggcctctcag 420
gccctgcgcc tgcctcagggt ctttcttctg gcagcctgct ccagcctggc cccaccccca 480
ggggcaggcg gccctcctg gcttctcctg tagggcacct ccctgccccct agcctcccag 540
gaaatgggtgc tctcctggcc ctgcctctgg cccttcccs ggcgctgccc ctcagccatg 600
tggcacttct gagctcctga cctaggccaa ggggaggtct ctgccccctt ccccggccct 660
gggctaccct tgggtcctgc tcctcaggcc gctccccctgt ccctggccat gggtaggaga 720
ctgccctgggt catggccgcc tgcctgtcat tcctgactca ccaccgtccc cagggtgaacc 780
attcctccct tctcctcagc tgcagtcgaa ggctttaact ttgcacactt gggatcacag 840
ttgcgtcatt gtgtattaaa tacttgggaat aaatcaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaanaaaaaa anaanaaaaa aa 922

<210> 1687
<211> 1596
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1498)

1057

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1589)

<223> n equals a,t,g, or c

<400> 1687

```

tcaccgggtg cgccgtctag actagtgacc ccgggctgca ggaattcggg cgagggcgcc 60
cagggttcttt agtggaagaa cgcggaagcga ggatgagtga tccgtggagg cagtaacagg 120
cgccggcgagg gagaagtgat tcccgaagaa tcaaggctgg gccggaccgg gtggcctggc 180
aacagggttaa taagagaaat gaagccaaca ggtacagacc caaggatctt atctatagct 240
gctgaagttg caaaaagccc tgagcagaat gtccctgtta tactgttgaa gttaaaagaa 300
ataataaaca tcacaccttt aggaagctca gagttgaaga aaatcaaaca agatatatat 360
tgttatgatc tcattcaata ttgcctcttg gtccctcagtc aagattattc tcgaatccag 420
gggtggttga ytacaatttc ccagcttaca cagatattaa gccattgctg tgtgggcttg 480
gagccaggag aagatgcana ggaattttac aatgaattac ttccatcagc tgcagaaaat 540
tttctagttt tggggagaca attmcaaaca tgttttatca atgcagctwa ggctgaagaa 600
aaagatgaat tactacactt tttccaaatt gtgactgatt ctctcttctg gcttttggga 660
ggccatgttg aacttattca gaatgtacta caaagtgatc atttcttaca tttactgcaa 720
gctgacaatg tccaaatagg atctgcagtc atgatgatgc tacagaatat aytacagatc 780
aacagtgggtg atttactcag aataggaaga aaagccctgt attcaatttt agatgaagtt 840
attttcaagc ttttttcaac tcctagtcca gttataagaa gtactgctac aaaactccta 900
ctggtgatgg ctgaatccca tcaggaaatt ttgattttac tgagacaaag tacctgctac 960
aaaggactca gacgtctact aagtaaacag gaaactggga ctgaattcag tcaagaactt 1020
agacagcttg ttggcctttt aagcccaatg gtctatcagg aagtagaaga gcagaaacta 1080
catcaagcag catgcttgat tcaagcctat tggaagggtt ttcagacaag aaagagatta 1140
aagaagcttc catctgctgt gattgctttg cmgaggagtt tcagatccaa acgatcaaa 1200
atggttgctg agataaatag gcagaaggaa gaagaggacc tcaaattaca attgcaactt 1260
caaagacaga gagccatgag actttcccga gaattgcagc tgagtatgct cgaaatatgtt 1320
catccagggtc aggtggagaa acactatcgg gaaatgggaa gagaaatcag cactgattat 1380
ccagaaacat tggaganggt acanggaaag gaaaaatttt caccaacaga ggcagtctct 1440
catagaagta taaaagcaac tgtcacactt caaaagagca agcgctttta attcctancc 1500
gaaattgncc gttangaaaa aaggaaacta ttttgctcc cttgggcgaa gggacctncc 1560
aaagaaacct caacctgaaa tgccaacgnc cccaaa 1596

```

1058

<210> 1688
<211> 329
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 1688
ataaaagaag caatcacccc cacatTTTcc cctgccacc acttgccgtg accaagtgtg 60
agctctgaaa ggggaagtct ttaaggTTaa acaagtgttg aagtcttaat tttttttatt 120
acatggactt taccaaactg actTTTTgtt tgtntctttt tagtggctag aagtgacccc 180
aggatTTTTt tattatcaag agagactaga agaatcatga gacttttcct agttgccttt 240
caagaatatg aagaaaaaaa tggttctcaa agtgggtttg aatgagtatt gttccaataa 300
atgaacttat attcataaaa aaaaaaaaaa 329

<210> 1689
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

<400> 1689
tccgnaattc ccgggtcgac ccacgcgtcc ngtagtaac tacttcaatg atcatttcac 60
aagaaaaaga ctataaatta agtagaganc aacattttta ttgaacattt ttggcttgca 120

1059

```

atcaaacttt gccactaaaa attaaacttca taaaacacta gtccgttatc aacttcttca 180
cagagaaagt agctatacta taccctacat atttatttat ttattattct actatagcag 240
aataacaaaa cttgatgcat taagccagtt ctttgcaact gaaaattacc tgtttctcct 300
tccctttcac actccatgta tatatgatca gcctctccat taaaaagaag ctggacatgc 360
aartacatca tattatgttt tctccatatt ttatgttttt ctatgtatct gaatacagtg 420
ggataaataa ttgaaagtag tgttcctatg gcattagtggt ttttgtgaga agggtaaatg 480
tagtgagaaa gggttttttca tggcattaat aagaaagccc ttctgtaata tatatattat 540
tttgtaaaca tttcactgaa gggccaaaag tttaaattata actaaatcac tgtgttttca 600
gaatgatatt taacaacaaa cccgtgggtca aacccaaaata gtgggttgaa gtgtattatt 660
catcttttag tgcattggca attgcaaaaa aaaaaaagga atttaataata aggctataga 720
gattaattca gtgtctaaca tttgtattta tttaaatagt tattgacctt tgatgacttt 780
ctagtcttaa cattttayct ttttattggt gttgttcttc ctttcaaaga tgtggttctt 840
aataggttca ctgaatgcac agttgaggca cttcttgtga caccagttcc caagtagcgt 900
taataattgg gcctgtgtca taaaatgcac ggatcattaa taactaaatg tccctgacac 960
ttttcactac agggctggac ttagtaactg accaacttcg gggggagggt tggggcaagg 1020
gggggtgggc gttagaacat gatcaaaaaa tgtctccgct cagggattta tgggtggatta 1080
ttgcagacag tgctaaaaat atagagcaca agacaagttt actaaattaa aattttattt 1140
tttgagaaac tgttatttgt ataaattatc aagattttgt ggctttcctt ttgtagaaat 1200
aattgtttta tgtgccagag aatttcaatt ttgttttcaa caataaagca ttgataagaa 1260
anaaaaaaaa aan 1273

```

<210> 1690

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (986)

<223> n equals a,t,g, or c

<400> 1690

```

tttttttttt tttttttttt ttttttgkat taratttttt ttttcctagt accttccagc 60
tctaaaaaaa tttgaaatag cataataaaa gacaaaakga aaacgaaatt ttaattgkaa 120
tattttctgk cacagcagca tatgtatatt tgaaatactg gtaacaattt taaggtagca 180
ttctgtggta ttaatatatta ttaatatgct catgaacttc taagtgccac accagacata 240
tagactcttt actttaaaag agcatatatatt taaggcattg aaatggatac agctatatattc 300
attctcaatt gtcttaggct attatatgga aagatatgtg tcaattatag gtaggtaggt 360
aggtaggttag attttctgga aacacagaag tacttgacgg agagttaggc ctgtatttcta 420
taaactctatt aatggtagca aagtgcataa gacagggatt tctttgagat gaaaggagtg 480
ctgaagaaga gcattggaat taatatattgg atgtgggtatt gtgaaattca atgggtaaag 540
taaccctaatt gtgggaataa aagtcaaggg aaaggctctg aataagtaca cagaaaaata 600
ggctaaaaat attaagggga gggaaattgg aatacaggga gacagtgtgc aagaaagcaa 660
gccaggaatc tgcctatgtg gtagacccaa ccattactac ttgaaccccc ttagaaaagc 720
ttttccagca ttccataact caggttcctc atttataaag tgggaaactc ataattgtcc 780
tacctacctc acaggggtgt tgtgaggatc aaaggaacag atgaatgtat gagcactttc 840

```

1060

```

agacatgtaa ggcactgtnc atgtaacaag taggggaaag actctgggag cacattagtg 900
ttgggtgtgt gccaaagcccg tgggttgttt ggaccgtaag ggatkatttc aagttaggga 960
gggagggaag agaagktggg cwttgnttat taaaggttgt tgttacacac cttagggttt 1020

```

<210> 1691

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<400> 1691

```

caagtntaag ccccanattg ctgctctgaa agaggagaca gaagaagagg tgcaagatac 60
aaggcttttag agagcagcat aaatgttgac atgggacatt tgctcatgga attggagctc 120
gtgggacagt cacctcatgg aattggagct cgtggaacag ttacctctgc ctcaraaaac 180
aaggatgaat taagtttttt ttaaaaaaga aacattttgg aaggggaatt gaggacactg 240
atatgggtct tgataaatgg cttcctggca atagtcaa atgtgtgaaag gtacttcaaa 300
tccttgaaga ttaccactt gtgttttgca agccagattt tcctgaaaac ccttgccatg 360
tgctagtaat tggaaaggca gctctaaatg tcaatcagcc tagttgatca gcttattgtc 420
tagtgaaact cgttaatttg tagtgttgga gaagaactga aatcatactt cttagggtta 480
tgattaagta atgataactg gaaacttcag cggtttatat aagcttgat tcctttttct 540
ctcctctccc catgatgttt agaaacacaa ctatatgtt tgctaagcat tccaactatc 600
tcatttccaa gcaagtatta gaataccaca ggaaccacaa gactgcacat caaaatatgc 660
cccattcaac atctagttag cagtcaggaa agagaacttc cagatcctgg aaatcagggt 720
tagtattgtc caggtctacc aaaaatctca atatttcaga taatcacaa acatccctta 780
cctgggaaag ggctgttata atctttcaca ggggacagga tggttccctt gatgaagaag 840
ttgatatgcc ttttcccaac tccagaaagt gacaagctca cagacctttg aactagagtt 900
tagctggaaa agtatgttag tgcaaattgt cacaggacag cccttctttc cacagaagct 960
ccaggtagag ggtgtgtaag tagataggcc atgggcactg tgggtagaca cacatgaagt 1020
ccaagcattt agatgtatag gttgatgggt gtatgttttc aggctagatg tatgtacttc 1080
atgctgtcta cactaagaga gaatgagaga cacactgaag aagcaccmat catgaattag 1140
ttttatatgc ttctgtttta taattttgtg aagcaaaatt ttttctctag gaaatattta 1200
ttttaataat gtttcaaa caataataaa tgctgtat taaaagaatg attatgaatt 1260
acatttgtat aaaataattt ttatatattg aatattgact ttttatggca ctagtatttc 1320
tatgaaatat tatgttaaaa ctgggacagg ggagaacctt ggggtgatatt aaccaggggc 1380
catgaatcac cttttgggtc ggaggggaagc cttggggctg atgcagttgt tgccacacgc 1440
tgtatgattc ccagccagca cagcctctta gatgcagttc tgaagaagat ggtaaccacca 1500
gtctgactgt ttccatcaag ggtacactgc cttctcaact ccaaactgac tcttaagaag 1560
actgcattat atttattact gtaagaaa atcacttggt aataaaatcc atacatttgt 1620
gtgaaaaaaa aaaaaa 1636

```

<210> 1692

<211> 835

1061

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (833)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (835)

<223> n equals a,t,g, or c

<400> 1692

```
caaaaaaaaaag aaaggaaaaa cagggccagg tagccattkt ggagagagca cacttaggaw 60
tcctgggatg ttagtkttaa aagaaagctc ctggagccag tgattctcag gtttgtccca 120
gaaccctttt ttctaagccc catataaaaag gtagattaaa aaaacaaaagt agcatgagtg 180
aaattgagag agggacaggt aatgccttcc agcccctaac ttctaacaat ctggaagcac 240
aacgtgaaaa tcackkagcc caaccctatc attttcatat tatgaaactg agtccaggta 300
agtgaatctg tccaagggtca cccagcaagg tatcagtagc cctgagggta aggactctga 360
taaggctcgg gagggtcctg gaaagcctga ggcggcagga agagtgtgca gagttgagcg 420
tgtctggaag gctgatccac tgctgggccc acatcaaagc ccccatgggg agcagacccg 480
actgcacatg gctcttttgc tggaagaaga gcatggctgc gcagaggact aaaatttcat 540
ctgggaaggc ttcttttgac tgtcagtagc aggatgtcac cagatgaggg tgctatggga 600
ccacagctgt ctttgttccc attgcaactc aaccctgcrg gaggccgcct gcacccctga 660
gagccttctg gagcctacag aggagacatt ggccagccaa aaggaaaagga gtggccaggg 720
tacgacctgg agtagggaag ggaaaaagtt cccggaaaga agagaattgg atgagaggtc 780
tcggtggaag taaaggtttt ctggcattgg tcaaggaaaa aaaaaaaaaa annan 835
```

<210> 1693

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (513)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1062

<222> (597)

<223> n equals a,t,g, or c

<400> 1693

```

gtttgaccct acgtggaagc ctacaagaag gggaattctg ggcaatgtgg ttcagcccag 60
ccacatcaca tactattatt tagtagtcat gaagagagag acataggtaa aaacagcagt 120
tagtatttct tcattctgat atctggcagc aagtgagtga tgctaccatt atcggctaaa 180
atcaggaact ggtattaatg cattttgttt tgttttgttt tctgctttat tctcctctgt 240
catagacagt gaagagtaag tgaagaattt gagggtcac caccattgtg aactcatcaa 300
agtttagtagc acttaaaatt tgctttttaa atgaatggaa agatkccaag ttttyaatag 360
cacaaatatt tttttctcat ttgtacctt tttttgtctt ttgtatacag atattcccac 420
tctggccact gcccaaagg gctcttatct gaggaatact gctgacttcg agtacctagt 480
tttacagagc catctttctg aagcataaat tanattacat tattctacag cttaaatccc 540
tcttgaactt cccatcaccc caagagtgga tctgaaacgc cttanagtgg cattcangac 600
ccttctg                                     607

```

<210> 1694

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (838)

<223> n equals a,t,g, or c

<400> 1694

```

ggggcgagcg aggaggatgg cggagtcggg gctcctgacg gaactctaata gaatcattga 60
ttgaccagca ctattttacc agttggaatg aatgatcaga aatgggcata gtgcttttag 120
atccaacatg taacagatgg atgttactcc atgctgatta cttcttcaag ccagtacttt 180
tttgattgtg taggatcttt gtctcttcat ctttgaattc aattactgga aaataaaagg 240
agttcatgta gtttttgtcc aggcttgagt caccatgagt agtagtttag gaaaagaaaa 300
agactctaaa gaaaaagatc ccaaagtacc atcagccaag gaaaagaaaa aggaggcaaa 360
agcctctggg aggttttggg aaagagagca aagaaaaaga acctaagacc aaagggaaaag 420
atgccaaaga tggaaagaag gactccagtg ctgcccaacc aggggtggca ttttcagttg 480
acaatacgat caaacggcca aaccagcac ctgggactag aaaaaaatcc agcaatgcag 540
aggtgattaa agagctcaac aaatgccggg aagagaattc aatgcgtttg gacttatcca 600
agagatctat acacatattg ccatcatcaa tcaaagagtt gactcaatta acagaacttt 660
at ttatacag taacaaattg cagtccctcc cagcagaggt gggatgttta gtaaatctca 720
tgacactggc tctaagtga aattcactta ccagtttgcc tgactctctt gataacttga 780
agaagctgcg gatgcttgat ttacggcata ataaactgag agaaattcct tcagtggntg 840
tataggctgg attctctcac cactctttac ctctgcttta atcgtataac tactgtggaa 900
aaggacatca aaaacttgct aaaactcagc atgcttagca ttcgagagaa caaaattaaa 960
caactacctg ctgamattgg tgaattatgt aacctcatta cgctggatgt agctcacaat 1020
caacttgaac accttccaaa ggagattgga aactgtacac agataaccaa ccttgacttg 1080
cagcacaatg aactgctaga cctcccagat actataggta tgagaggaga raggagakat 1140
tgatagctgt taatagctaa ctggatatta ataggactat ttttgatcca tttggtaatg 1200
aaaattcagg agtaaaattc acaattacca aagttgtaaa actttttaaga taatatttta 1260
aatcattttt tca                                     1273

```

<210> 1695

1063

<211> 800
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<400> 1695
 ctatgggtgtg ncctgtactg gcactttttat tctgggttttg acttgactta gattgtntga 60
 tacttttggtt ttgggttttgg ttttgacctg gcttggggttt ttggatactc tgattttggg 120
 ttgggtgtaaa ctgcaaaaagt gtgtgtgccc tgtttttttg ttttgtagtg caygtgtggg 180
 gtgrgygtgg tgttttgtct cgaagaagca tgggtcagggt acaaataagc ccacccccact 240
 aggaactatg ttaaaaaaaaa attcaagaaa gaatttaagg gagattacag tgttactgtg 300
 acaccaggaa aacttagaac tttgtgtgaa atagactggc cagcattaga ggtggggttg 360
 ccatcagaag gaagcctgga caggtccctt gtttcaaagg tatgacacaa ggtaacccgt 420
 aagccaaggc acccagacca gtttccatac atagaaagtt acagctgctt ttataccccc 480
 ttgccccgcc aacgtagtta agagaacagc agcataagcg gctggcagag gcaaggaaaag 540
 accagtagag agaaaaaaaa gccatctata ccaattctaa gttaatttag actaaacaag 600
 gtcttaatag caaaggataa ttgaaatccc aaacttacaa ggttttcaac aaaagtgaag 660
 tttgcttaaa gttaacagtg taacatgtat tatggtaact tctaattctg tggccttaga 720
 cagtctagtc caaaggcata aagaaagttt gcttttaaaaa aaaaaaaaaag gaatgggttat 780
 cttcaaaaaa aaaaaaaaaag 800

<210> 1696
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (496)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (517)
 <223> n equals a,t,g, or c

<400> 1696
 ccagcacttt gggaggccga ggcagggtga ttacctgagg tcagcagttc gagaccagcc 60
 tgaccatctc tactaaatgt acaaaaagtga gctgggcatg gtggcgggca cctgtaatcc 120
 cagctacttg ggagactgac gcatgagaat cgcttgaacc tgggaggcga atgttgcagt 180
 gagccgagac cacaccaccg cactccagcc tgggtgacat gagtgagact ccatctcaaa 240
 aaagtataat aaaataaatg gattaaagac atgaatgtaa aatacaaaaa gtcaaatcca 300

1064

```

agaagaaaat tatgkttatc gtaggagtgta gtgtgaagtt aggaaaccca aagaaacaac 360
gggcaagggg gatgaacaag cagtttacag acacggaatt cagatcgcca ggaaatatgt 420
gaatggtgtt cgagtytgcc ggtattccat atgcaaatta aggcaacact gtgctcagtg 480
gctggcacag cattgnccaa ggcagtaagc gctattna 518

```

<210> 1697

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (543)

<223> n equals a,t,g, or c

<400> 1697

```

cggaatagtg ggttttgctg caaccggttt attttccttc tgttttcacc cattctggca 60
caatctggcg ccatcgtcct tcttgtagg ccaagcctga aaatgcgaag cagagaggca 120
ggacaaaaat tgaggcgaat ccaggaacct gccaatgggt ctccgggtgc ggtctctgaa 180
actggaggat atcgggagga aaggctctcc gatgcggaga taatggggaa gctcttggca 240
tggttggtct taggtatgtg ataccggagg agcaggagtc aaataggata cgccgacttt 300
taattcaagg aacccttttc tgaaacactt tgccacaatg aaggaaataa ggaattgtac 360
tctcagagat gttgagaaaa gatacatggg tcttggaag ataattactc aaaatatgca 420
gggaagggat ctagtttgga agcacttaag gaagaattaa gacctccagt ttggaaaaga 480
gggcttctat caggaacaac acganttctg cttaaantgg aagccaagaa caaacctcca 540
atnt 544

```

<210> 1698

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

1065

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<400> 1698

```
gaagaccctg gctctctata aaacagaaaa cgcaaacttt aatattatca acaatcaata 60
tattataaga gattgcaatt tctaagtttc tacctgagtg tttcacaaat acaaaactgga 120
cattttccct ttaaatgagt tttattataa aatgtacata ttgattgtaa aaacaaaaaaa 180
ttcaaatagt acaaaaascac ataagtaact aataaaaagct ccctttctgc attaggcccc 240
tcagttcttc ccagggaata tgattaatag tttacattct tgcagaaatt ttttatgtat 300
aaatttttac ccaaatgaat tcattatata aattttttcc aacttagtgt ttttttacat 360
aataatagca agttttaaaaa ttgttcttca ggccangcac ggggtgggtca cgcctgttta 420
tctcacactt tgggaagctg aagcaggaaa acacttgaag tcagganttc aaaacaaccc 480
tggccactgg tgaaaaccnt ctctactaaa ttacaaaatc acttggcttg gt 532
```

<210> 1699

<211> 189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<400> 1699

```
gcaacatttg tkaaaagtag agggctaaag taacaccctt ctaagcattt gttttcagta 60
cttcctagga gtggttgcac ttgggaatgg aattgttaaa acttgatgct taggagcgta 120
tgctgactat tcactgcgtg gtgggtgga gaggaggagg aggtatgcag ggagaagggt 180
tctgtgcnc 189
```

<210> 1700

<211> 638

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

1066

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 1700

```

aattcccggg tcntcccacg cgtcnttnag agagcgcgag gaggttttga gagaggagat 60
tcagacactt accagcaagc tccaagaatt gcaagaaatg aagaaagaag agaaagagga 120
ttgcccggaa gttcctcata aggtacagtg accattcagt tgagtctccc gtcagggtgcg 180
gtgagacttt ggtcgtgacg gttctgaccg tttccctgtc cagagttttt tctgaccagc 240
cactgaaaat cccactcccc ttatcatca ccattgattt ctataactca tgtcgtgtgt 300
atcgaagtcc gggtttttga ttaattgact gtcagcaa at tgacttctcg aactgatatt 360
tgagtctcaa ggctggtgag taaagagttt tccaaatctt ggtcatgcgg aggggtgtagt 420
tatgcggccg gagctgtcac tgagaggcag gaggggcttg gggggaaagg acgaaggctc 480
aaccaggccc ctgcatggac ctgggcatgc gtcctctnct ctcactaag ttccagaaca 540
caagtgggca aaagcctcag cgggcactgn cctctgggtg ggggtgggct ttctgtgccc 600
ttccttgccg tnacttcann ttgtgcacgg gttgaaan 638

```

<210> 1701

<211> 695

<212> DNA

<213> Homo sapiens

<220>

1067

<221> misc feature
 <222> (639)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (678)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (691)
 <223> n equals a,t,g, or c

<400> 1701
 ggccctggtg agtgtcctca ccaaggagta tgaggacgcc gtcagcatcg ccacggcagt 60
 gcttgctcgtg gtcactgtcg ccttcatcca ggagtacagg tcggagaaat ctctggaaga 120
 gctgaccaag ctggttcctc cagaatgtaa ctgcctaaga gaaggaaaac tccagcacct 180
 gcttgctcga gaactggttc ctggtgatgt cgtatctctc tcgatcggag accggatccc 240
 tgcagacatc cgactcactg aggtcacgga cctcttggtg gatgaatcca gtttcaccgg 300
 ggaagccgag ccatgtagta raacagacag ccccttgaca ggcggtgggg amctcaccac 360
 cctcagcaac atcgtcttca tkgggamoct rgtgcagtat gggargggcc arggggtcst 420
 gattggaaca ggggaaagct ctcarttcgg araaktgttt aagatgatgc aggctgaaga 480
 gacacctaaa actcctttgc agaaaagcat ggacaggcta ggaaagcaac tgacactctt 540
 ctccctttggc ataatcggtc tcatcatgct cattggctgg tcgcaaggga aacaactcct 600
 gagtatgttc acgatcgggg tcagcctggc tgtggcggnc atttcanaag ggtctgcccc 660
 ttcgtcgtca tgggtgacnct ggtcctggga ntgct 695

<210> 1702
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 1702
 ccgccctgca ggtcgacact agtggatcca aagaattcgg cacaggccag agggaccata 60
 gtgttgggca ctgtctgacc atgttgcat tggaaaggcta aatggggcca tgaagaaggc 120
 tggaaaggac agggggtgat ggcagcctac ctggtgtccc ctacccacc tgttctcggg 180
 gaaccaagtt gctacacagg aagttctcca aggtccagtt tcctttctcc caccagttgg 240
 tggaggcctt aggggaagacc agagtcctgg acagagaggg taacaggagg agtcggggat 300
 aaacatcaaa catcaatcgt gtgtcctgat ttgggagtga ttggggggat ggggtgggag 360
 aggggttagtt ggtattctca tggcctgatt ttttttggtt ctattccttt tatatcactg 420
 tgtttgaatc gagggggagg ggtggtaacc ggaaataaag acctccgatc ttccgcccc 480
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaaaaa 545

<210> 1703

1068

<211> 1620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1608)

<223> n equals a,t,g, or c

<400> 1703

```

aattcgggcac gagggaaactc tacctctgca gcgagtgcgg gcgctgcttc acccacagcg 60
cagttncgcc aagcacttga gaggacacgc ctcaagtgagg ccctgccgat gcaacgaatg 120
tgrgaagagc ttcagtcgca gggaccacct cgtcaggcat cagagaacac acactgggga 180
gaaaccattc acgtgcccta cctgtggaaa aagcttcagc agaggatatc acttaattag 240
gcatcagagg acccaactcag aaaagacctc ctagckaggt ccccatgtga ggagatctgc 300
tttcagccct cacctaaggg aggtgaggaa gaggaaaagc cctcttgtca gcctgggaag 360
accttttcga gggagtctcc ctgacctgct cagatctgac attacctctt cctgcaacta 420
aacacgagcc tgggcagaaac ctctcagcct tcctctacgc cttgagggga tgtttcatcc 480
aaagtacaac ctgaattgag gcttctcctt cactggagtg cacctgcctc tacctcatgg 540
gtataaagta ggagaactaa gagacttaag aggtcgtggt tcctatatcg tccaaaaaat 600
aggctgttac atatcctaaa gactgctcaa cagcttcaag ttgaaagtgg ccaaggacag 660
ccccttaggt ttgggaaggg acgagcctga aggattctgt ctttactggg gtcaaatctt 720
aaagcacaca gctctggact caagacagga ggtttgcgct ctgatggctt tgcacacatt 780
cacaggataa ctgcatagat ccctcgctgt ctgattcact tcttaccatg cactttcctt 840
tgatgctgag gagaaatgga agtgggcgaa aaatctcaag gctgcttcac gtggaccttg 900
tcaagctgct ccctcccca gcgtaaaatt gttatcaggt gccaaacact gctagaaagg 960
agggcctagt cagaagcctc ttcccatacg agtttttggt ttgtttttta tatttttttc 1020
tattaaaaata ctcatgcatt taaccttccc gttattcaac cagtctcttg gttgcatccc 1080
tagcacttct actacaagtg agatggtagt gtttgagtg ttattgagta aagcataatt 1140
cggtcataat gaaatcgttc acattccctc atatgcacaa gccaccaac cccttcacac 1200
cccccttcac aggggtcgta tgagtaaggg gatttggaag ctgtcaactt acaaaggcac 1260
tataacaatt acagaatcat gattgccatg ggccacttta tttacatgaa gacaactgga 1320
gaacgactaa gaccaaaatta tggaaaataa gaaaaagctg ttgctggcaa gaccatcaag 1380
actgttctga caccctgtcc ccatcatccc tgactgagta ctctgacatc acggaaaagt 1440
ttgaacctgg gaccctgagg aattcaccag gagtaaatgg ctttcatgta tttgtgtgtg 1500
ttgctttttc ttacgtggat tttatgttca taggagctag gaaagtagcc tcttctggtg 1560

```

1069

ggccccaaca ttcttcttgt ttgcccgttt naggggtccn ttgggagntg gagggcttga 1620

<210> 1704

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 1704

tgcacccgcc	cctgggaaag	atgctgatag	gtcttgctgg	ctacctgagt	ggatatgatg	60
gtaccttttt	gttccagaag	cctggggata	aatatgaagc	atcacagcta	catgggaatg	120
aagaaggagt	kaaggcttcc	tgacttgaaa	tgggactgac	tgaaccctgg	ggccacactt	180
aaaccagaaa	tgttatagtt	tagcagccct	ggcgtggtgg	gcaggtgcaa	attaaagggg	240
actttgggtg	gtggagggag	aggggaggat	gattcagacc	cttccccctg	gggtgttagg	300
attactcagg	aactgagggt	naggggaagaa	gggnagagga	ggttgcaatt	attacagggg	360
tgacatagtt	agaaggcagg	cacgcatttt	tcaccgttng	ccctg		405

<210> 1705

<211> 1592

<212> DNA

<213> Homo sapiens

<400> 1705

aattcggaac	gaggcggaca	gtgagaaggt	caggtgaggg	eggcaaccag	ctcccccttgt	60
cccgcctgt	tcatectccc	attaccaccg	ccccacaca	ctcacacgca	cacttacgca	120
cagatcattg	cagcggatga	gatggggcta	tgacagaagc	ctcaggctcg	tttcttyctc	180
cctcctccag	ccccctcccg	gcttccagcc	cattctcttt	gcagctgggg	ttcctaccct	240
accctactcc	cagctccttt	tccccgcgga	tggagagatg	gactctgctg	cttaccacc	300
cactccccctg	caggggggtg	aggactgatt	cagctactgt	atccccactg	ctgtgactgg	360
aaatgggggt	ggggagtgac	tggctttttc	aaccctgggg	agttgaggaa	aatgtctgct	420
ttcacttcag	ctttcatttg	aatactgtga	tctgggtttt	attttgaaat	gtataaaaag	480
caaaccagc	tacaaaggcc	ttttcaccct	tccactttgt	aactaatccc	agtctcttct	540
catcactcct	cctcttacag	tactctgcta	ttcatgetca	tttcatgttc	ttaatcttct	600
ttcctgttta	aaaatttttt	tttggaaaaa	atttgaaatc	atggctcctt	tttctgctga	660
atatattcta	tatattatat	atatataaat	tatatatata	tatatacata	tatatgtctg	720
gctacctcgt	tttagttttac	tttttttctg	aagccctgga	attctacaag	agagatatatt	780
tgagactgaa	acatgtttgt	gcctagactg	gaaagatgcc	cttgggtttg	tccgtcttty	840

1070

```

tgtgttggck tcttcccagc ctccatccgt ccagtgtgcc ccacttccac attctggcta 900
taatttcctt tttctccttg ttcattggga tttgaggacc tatttctaaa tcttaattta 960
tagcacaaat atgtgggagc aatgagagtt gaaccgttgt ttttgttga gatgcagatt 1020
gtgtcttgaa aatgatgatt atatatgcaa attctgccct accctcacc tcttccaagt 1080
tccccccaa aaaggtcaca cagtgcggct tcctgtggga aacaggagca gagctggcct 1140
gcagagcccc tggggctgtg atgaagctca tatcttatct ctgttctatt aacaaaatgg 1200
gagtttgtgg gttttaaaaa attccgtttc taaatggagg aatagatgac tttctttctt 1260
ttggtggggg ttgggacttg tggctttaaa gaaatcactt ctgagtagga tgtatatatt 1320
cgttggtatt ttgttggtat ttcttttaga ccctccacag caacatgcaa gaccatggag 1380
ttaaagaaac ccagagacct ttatcaatta attgtactgt ttgtgaattt gtataaataa 1440
taacaaagat cctcttaaaa cgtttatatt cttacagtaa aagggttaaac tgatatttat 1500
ataataaaag aggaaatatg aagtatgttt ttgaaaaaaa aaaaaaaaaa caaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1592

```

<210> 1706

<211> 1442

<212> DNA

<213> Homo sapiens

<400> 1706

```

aaaaaaaaactc tctaatacagt tgtacacaca ttgaaactta tagccatggc cagattttat 60
gctaaaaaatg gtagtttgtc aaagacaaaa ttctcttaga atctaatacca acttgccagc 120
cctgagaaaaa tccctttttaa ggccaaggaa agctgaatgc tagcagccag gcctgtggta 180
cttccatgag aaaccatagc agacaatgcc ctcccaagta ctgaaatcac actggaatcc 240
cccttgttgg gttcatttga ttgtttaaca caggatgtgt tgtgtcattc tgaagttttt 300
atttggggca gaagtcttta tggagatgta aatgacagcg tttctgggtt atgcataact 360
tctcactggg cagagacacc ggtgtgtcaa gcatggatat tgcattgcaa gacttgaatc 420
tataaaaaatt agaatacacac agtcagtact acaagcaaaa cagagaacct gaaagaaggt 480
gcacagactg taagaaaaaaa cccaagtttg tgatatttca gtgattccaa agaacattct 540
agggtttttt tttgtttttt tgttttttgg gttttttttt tttactgcag aaaattgggtg 600
gtattttcac attcatagtg tttctatcca atttcagtac ccacatttaa tgaggaaaaa 660
atgttttacc aatgaaggag gaattcttaa attagctgta atgttaggtt ggagaaaaat 720
tgggtatttag ggtattttca aggtaccatc aaatcagatt tctgtttttt tgttaaaaaa 780
aattttttta atcagatttg tttttacaag taatatactt tgaaactctt gaactaatag 840
tctcaaaaac tctagaggac agtctgagaa cacgtatttc tattgttcta aataaatata 900
tgtttttgaa tagttcaatc atgaattatt gactatgtct tcatcaaaag tgttaatccc 960
tctcagggtc tctgggtgaag accttcaaga gtttgggttt ttctcccagg aaattggaag 1020
gtagaattgt aaattcatag aacttctttt ataatgggtg acctcagcag ctgcctttca 1080
atztatgcc aagtccttaca gagtttatac ttgaatagta aatatgtctt ctgagtttta 1140
cagtgtctta aactcaatgc acattttttt ttcttctttt tccacccctt cttgtttgta 1200
gttcattata cctgtcctat tacagaactg atttccctcc tggctgtaca tgttgggggtg 1260
ctggattttt ttccgtgtct ttagtcttcc ataaatccac acacacacac acacacaaaa 1320
aataatatata tatataaata tatatgtagg atacatgttc tcttcttttag cttgtgggtga 1380
atacagtaat ttgcattgaa gaataaaaca tctgttgcc tttttgacta araaaaaaaa 1440
aa 1442

```

<210> 1707

<211> 808

<212> DNA

<213> Homo sapiens

1071

<400> 1707

```

gtttcagggtc tttgtgtgtg gctttcttaa agccctgttg taaaaaatta ctatgtggat 60
ggcagtctct caccatcacag atgtggaaag tataatttta ttttgtatt ttcaaataaa 120
taagtttgtg aaaggtttcc atcctctact gtgggtccaga aagatgcttg agatatatat 180
atakatagat acatatatat gtatatatat aaaaaaata ctactacaa aagttccaga 240
gcctccctcg aaggttctct actactgtat tctgtacata atgtaccatc ccatgtggaa 300
tctgtgagtg tcctcttaag tagcgtgggc tagccaatct gccgttcacg gtgtattgta 360
aactccgaat tccatatgta ataggatgca agtctaagcg tttcatgtgg acataaatgt 420
atctaaataa aactttccct agcactgtgg ctgacctcac ccttactttt atactttagt 480
atgaaactga tgagaacttt ggtagtgagt atttttttta tatatatata tatatatgta 540
ctatctatat atatatctca agcatctttc aggtctttgt gtgtggcttt cttaaagccc 600
tggtgtaaaa aattactatg tggatggcag tctctcacat cacagatgtg gaaagtataa 660
ttttatatatt gtattttcaa ataaataagt ttgtgaaagg tttccatcct ctactgtggg 720
ccagaaatca atgtgtttgt ctgacaaaaa aaaaaataaa ataaaaataaa ctgttttgaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 808

```

<210> 1708

<211> 1055

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (996)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1010)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1025)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1030)

<223> n equals a,t,g, or c

<400> 1708

```

gataaatcta tcaagaataa agcagaacgg gaaaggcgag tcagggagtt aaacagcagc 60
aacactaaaa agtttctgga agaaagaaag agacttgcca tgaagcagtc caaagaaatg 120
gatcagttga aaaaagtcca gcttgaacat ctagaattcc tagagaaaca gaatgagcag 180
cttttgaaat cctgtcatgc agtgtcccaa acgcaaggcg aaggagatgc agcagatggg 240
gaaattggaa gccgagatgg accgcagacc agcaacagta gtatgaaact ccaaaatgca 300
aactgaagca gcaaaccac aaagcatcaa aagactcact cacaaacttc tgaacacaaa 360
ctccatggat gaaagctgtt tttttgttt cctttatgtg taaacaagat gatattctgaa 420
accagagaga cttggaatgt ctgactgact tctatttaac agcttgagta ttgcatttcc 480
ttggccaaac aaaaatagct acaaatccac aaaaatttac tattccagta aggcagagtc 540

```


1072

```

caaccattga taatacaact taaacatggt tgctataaaa taccatcaca agtaaagag 600
cttgggtgtga acaactctcc tttgtgatgc cttaggacat gtttgaactg cagcaaaaaa 660
caaaaacaaa aaacagtgca ttagcaatct catagcaagt gcatgcacta ggaaaagaaa 720
actctgtcta caagtttatt agcagaagtg gtggtctgct agacaaataa ttttgcaaaa 780
tttttctaca tctaagttac ctcatcagta agtgccatgt ctctaccatg ccatcagagg 840
ctaatttcct gtaaaagtgt tggaaattgt tagamcaata gaaaaataga gcagtgtatg 900
tgtgccaaac tcatcattac tcaagggaga ctgtgttagg acattaagaa gttacactgr 960
catgctttat aggattgttc tgcmgttccg gtattntatt ccacctaagn tttgagtggg 1020
attgnaacgn tgtaatgtgc ccagataagg ttatc 1055

```

<210> 1709

<211> 1044

<212> DNA

<213> Homo sapiens

<400> 1709

```

aaaaatcttc tagaggaaat actcaagcaa ctagtcattc ttttgatgtc agagtgtctaa 60
cgcagttgct cctgaattca gaccacagat ccacagccac agtccagata tgtagcgggt 120
ctgtaaacct taagggtgct gtgaaatgca gagcttatat ccacagcagt aaacccaaaag 180
ttaaagatgc tgtgcaggca gtaaagaggg atatattgaa cacagttgct gatcgttgtg 240
aaatgctatt tgaggatctg cttttgaatg aaattccaga aaaaaaagrt tctgaaaaag 300
agttccacgt cctcccttat cgagtccttg ttcccccttc tggatccact gtaatgttgt 360
gtgattataa atttgacgat gagtcagctg aagaaatcag ggaccatttt atggagatgt 420
tggatcacac aattcaaata gaagatttgg aaattgcaga ggaaacaaac acagcttgta 480
tgagttcttc tatgaatagt caagcttcat tggacaacac agatgatgaa caacccaaaac 540
aaccaattaa aactacaatg ttattgaaaa ttcagcaaaa cataggtgtg attgcagcat 600
ttacagttgc agtccttgct gcggttatct cttttcatta cttcagtgat taggggtgagg 660
cacaaaagat ttcttgatca tccagagaac attgacagac aattatgaat aataaagatg 720
ttaacaatcc atctgtatct aaaacactag cagccagatc tgctgccatg atgcctattt 780
gggtgtgttc tgattaaaaat gaaatcacaa gctgccttgt ttagcctgct ttacattgta 840
gggtggccgc atttccagaa ataacgttat gcatctagat ggaagctgca tgtaacaaat 900
cattattatc tattttttaa agcttcaaaa tgatgggata tgatcataga ttttagtctt 960
actaatctga atcacatatt aatcaggaca ttaaaaactt taacagagggc atgatggctc 1020
acacggtata atcctaattg tttg 1044

```

<210> 1710

<211> 895

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (883)

<223> n equals a,t,g, or c

<220>

1073

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<400> 1710

```
aattcggcctt cgagcgggccg cccggggcagg tgttctaaag ggggatggcc aaggggtgac 60
atcttaattc ctaaactacc ttagctgcat agtggaagag gagagcatga agcaaagaat 120
tccaggaaac ccaagaggct gagaattctt ttgtctacca tagaattatt atccagactg 180
gaatttttgt ttgttagaac acccttcagt tgcaatatgc taatcccact ttacaaagaa 240
tataaaagct atattttgaa gacttgagtt atttcagaaa aaactacagc cttttttgtc 300
ttacctgcct tttactttcg tgtggatatg tgaagcattg ggtcgggaac tagctgtaga 360
acacaactaa aaactcatgt cttttttcac agaataatgt gccagttttt tgtagcaatg 420
ttattttctt tggaagcaga aatgctttgt accagagcac ctccaaactg cattgaggag 480
aagttccaga accatcccct ttttccattt ttatataatt tataaagaaa gattaaagcc 540
atgttgacta ttttacagcc actggagtta actaaccctt ccttgtatct gtcttccag 600
gagagaatga agcaaaacag gaatttggtt ttcttttgat gtccagttac accatccatt 660
ctgttaattt tgaaaaaata taccctccct ttagtttggt gggggatata aattattctc 720
aggaagaata taatgaactg tacagttact ttgacctatt aaaaagggtgt taccagtaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aangggcggc cgtttttaag ganccaagnt tactt 895
```

<210> 1711

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

1074

<400> 1711

```
tggggatgaa aggatctctg agaccacaga ggctcagact cactgttaag aatagaaaac 60
tgggtatgcg tttcatgtag ccagcagaac tgaagtgtgc tgtgacaagc caatgtgaat 120
ttctaccaa tagtagagca taccacttga agaaggaaag aaccgaagag caaacaaaag 180
ttctgcgtaa tgagactcac cttttctcgc tgaaagcact aagaggtggg aggaggcctg 240
cacaggctgg aggaggggtt gggcagagcg aagaccggc caggaccttg gtgagatggr 300
gtgccgccca cctcctgcgg atactcttgg agagtgttc cccagggggg ctncctgscac 360
nctggnagaa ggaagctgcc tgggtgtggag tgactcaaat cagtatacct atctgctgca 420
ccttcactct ccagggtaca tgctttaaaa ccgaccgcga acaagtattg gaaaaatgta 480
tccagtctga agatgtttgt gtatctgttt acatccagag ttctgtgaca catgcccccc 540
agattgctgc aaagatccca aggcattgat tgcacttgat taagcttttg tctgtagggtg 600
aaagaacaag tttagggtcga ggactggccc ctagggtgct gctgtgaccc ttgtcccatg 660
tggcttgttt gcctgtccgg gactcttcga tgtgccagg ggagcgtgtt cctgtctctt 720
ccatgccgtc ctgcagtcct tatctgctcg cctgagggaa gagtagctgt agctacaagg 780
gaagcctgcc tgggaagagc gagcacctgt gcccatggct tctggtcatt aaacgagtta 840
atgatggcag aggagcttcc tccccacttc gcagcgccac attatccatc ctctgagata 900
agtaggctgg ttaaccatt ggaatggacc tttcagtggg aaccctgaga gtctgagaac 960
ccccagacca acccttccct ccctttcccc acctcttaca gtgtttggac aggaggggtat 1020
ggtgctgctc tgtgtagcaa gtactttggc ttatgaaaga ggcagccacg cattttgcac 1080
taggaagaat cagtaatcac ttttcagaag acttctatgg accacaaata tattacggag 1140
gaacagattt tgctaagaca taatctagtt ttataactca atcatgaatg aaccatgtgt 1200
ggcaaacttg cagtttaaa ggggcccatc agtgaaagaa actgattttt ttaacggac 1260
tgcttttagt taaattgaag aaagtcagct cttgtcaaaa ggtctaaact tccccgcctc 1320
aatcctaaaa gcatgtcaac aatccacatc agatgccata aatatgaact gcaggataaa 1380
atggtacaat cttagtgaat gggaattgga atcaaaagag tttgctgtcc ttcttagaat 1440
gttctaaaa gtcaaggcag ttgcttgtgt ttaactgtga acaataaaaa atttattgtt 1500
ttgactaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaangggg gggn 1614
```

<210> 1712

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 1712

```
aattcggcac gagtagatat gaagatacca ccaccaccac caccgctatc catacctagc 60
```

1075

```

ctaaagatgt agagccctct gctggggctg aggaggagct gtgggggtgct ttctaagtag 120
actttccacc agcccgctctg gtttgtctag tcccattttc accccacatc cagagttact 180
attattacca actcctgagc atttgcagga ttctgtagta tgaattggga tgcttcttg 240
ctttccctac agccagctta gaattgtgct ttctcaggtc tactaagttc aataccatcc 300
ttcagcctgc tctccagttt ccaacatggt actgttaagg ccttttccct cattttctat 360
cattgtgagt atgtgccctt tgaaaaccct tttgctgtca tttttgtggg atttggtgaa 420
gaagcagtgg taaatgcatg tattattctg tcactaagt gttcaatgtt agctcttctc 480
ataagtgggg atgttaggnc tcagttgctt tctctgntga aatgaggngg 530

```

<210> 1713

<211> 728

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (625)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (724)

<223> n equals a,t,g, or c

<400> 1713

```

gagaattgag gttgcaaggc tggctaactc agctttgcct tcacgagccc tagaggccag 60
ccgaagatgt tctgcaggtc agggagacag gaccaggtaa cccagctgty actgaagatt 120
atatagagtt tgagaatggt ggaatatttg aaaatgctcc cccaaaaaag ctgctgatga 180
gttctggaaa tgtcaggaga ttaatctata cggacactgc tgaagaaaaa ggtagaagaa 240
taaaagatcc agtacttctt cctgggtaag cagttatgac cagagatgga accggcaact 300
ctttggccag aaagctgtat ccaaaagaca gagaagatga gaaacaggga gggcaaaggc 360
gaaaaagcaa ttggacatga tagctagatt tgtttcagga aaacatcctg ctttccaagg 420
athtagatga atgtttttgt tcaactggtga ctcaggtaac acgtcttnca agaagccata 480
ggggagggtt gagggaggga agtcaagaag ggagggtgag gactgcactt ttgatttact 540
tctgacttca cgagtcactt tctggccaaa gnaaatctct ccttttgctt ctagcaccga 600
ctagatttcc cttcagcctt gatgnatttg gactccccag aaattccgaa aagaaaaactg 660
agttccccac aaaagctctt gttctgatcc tgggagcttc gccagcccca gttccaatta 720
atcnttcc 728

```

<210> 1714

<211> 1595

1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1595)

<223> n equals a,t,g, or c

<400> 1714

```

ggcacgagga aagctccaca cacacagccc agcaaacagc agcacgctgc tgaaaaaaaag 60
actcagagga gagagataag gaaggaaaagt agtgatggat ctcaccccaa acttggccgt 120
ggaaacctgg cttctcctgg ctgtcagcct gatactcctc tatctatatg gaacccgtac 180
acatggactt ttaagaagc ttggaattcc agggcccaca cctctgcctt ttttgggaaa 240
tgctttgtcc ttccgtaagg ctattggacg tttgacatgg aatgttataa aaagtataga 300
aaagtctggg gtatttatga ctgtcaacag cctatgctgg ctatcacaga tcccgacatg 360
atcaaaacag tgctagtgaag agaattgttat tctgtcttca caaacgggag kcctttcggg 420
ccagtgggat ttatgaaaaa tgccatctct atagctgagg atgaagaatg gaagagaata 480
cgrtcattgc tgtctccaac cttcaccagc ggaaaaactca aggagatgtt ccccatcatt 540
gcccagtatg gagatgtrtt ggtgagaawc ttgaggcggg aagcagagaa aggcaagcct 600
gtcaccttga aagactctt tggggcctac agcatggatg tgatyactrg cacatcattt 660
ggagtgarca tcgactctct caacaatcca caagaccctt ttgtggagag cactaagaag 720
ttcctaaaat ttggtttctt agatccatta tttctctcaa taatactctt tccattcctt 780
accccagttt ttgaagcatt aaatgtctct ctgtttccaa aagataccat aaatttttta 840
agtaaatctg taaacagaat gaagaaaagt cgcctyaacg acaaacaaaa ggtaaaatct 900
gatggtggtt aaatgacgat gtttaggttt tgataaattt agattttata cacatgatag 960
agcatgtatc tgtattttta aaaataaaga cagagaactt atgttttaga caagagaagc 1020
catttggtag aaataaagaa ggagattggg gaaggagatg agaatgagtc agagagatag 1080
catttaaaac ttgaaatcag gcacaacaat tagtatgtca tgatataaac agtattgaga 1140
taaaatttta ccacttctct tycctttaat aaattgtcaa aggataaagt ttcctgtttg 1200
aaaatatatt ttactggtat tgtgctttcc tcatatcaca gattggtaaa gaatcatttt 1260
aagtccaaga ctcttatttt acatattctg caattaaagg tcctatgagg ctacctgccg 1320
actgctgaca tgtagtgtgt ggtaaatgtg agtgtttcac agcctggagt gaacaggggt 1380
cttctctgag aattgaggtt gcaaggctgg ctaactcagc tttgccttca cgagccctag 1440
aggccagccg aagatgtctg caggtcaggg agacaggacm aggtaacca rctgtcactg 1500
aagattatat agagtttgag aatgttgga tatttgaaaa tgctcccca aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anggn 1595

```

<210> 1715

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

1077

<400> 1715

```

aaagtagggg cccgaattcc cgggtcgacc caccgcgtccg cttgctagtg tccccgatg 60
catgaaggat cccccatgt cataggcccc acctgcctgc tgtgcatccc gggtagccag 120
actcggcttc tccagggtgca cttgtcccag gtggccccgt cegtangctg raagggcagc 180
tgcagggtgca ctgcctcgcg gacagggttag gatatggcca cgcagccatc catcttctac 240
agcacgcaca cccactctc tccccagtc aatatgtctc tctccgatgg gaaagttaat 300
aaatTTTTgct ctagattaaa agtattgaty atttcatttg taaacgataa ataaaaaggg 360
ggaacttttc attgcgccag gggtaggcacc tggcgtgtgt tgcgggggtg attgcgctgg 420
ctgccggggg gtgggcttct catatgcatt ctggccggcc agctgcattg atttcctatt 480
agtctcccag caccacccag taacacatca tttcagtagc tgctattaat ggtcttttga 540
taataaatca cttgtaagtc aataaatttt tattaaacag traaaaaaaa a 591

```

<210> 1716

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 1716

```

tacttttattc tttcaaaaaca aattcactaa aaataacacc tattgatttt gaagtcactt 60
ttctcaaaacc ttgaaaatga gctctaggat ctctataaac atttctaaca cttttcctgt 120
agtttatata gacagacatc tgttggttaga cctgtgtgtt tttaaagaat catatgttaa 180
caaataccca tgcaaagagc ttcaaaaagt gaaaccgtgt taaaggaaca caatttttct 240
cactcagaca tatttggttta ttgaattgca aagttttatt ttaaatacagc atttcccca 300
agaatatatc atatgacgct agttccaagg ggcttgactg agtggtgttt tgctgggggg 360
agacaggggt ttgttaatac actttactaa atactgagct gaaaaatgtt aaatagattt 420
cacgattgcc tccttgaaga ttttaaagtt catttgtggtt cttcaaggcg aaatccgggtg 480
aaccattcct cacacttacc tacaggactc ttttctaatt gagcatcttg tgaagctagt 540
gggttttttt gttgttggtta tttgtttttt ttttttaatt ctttagaaaa cacagcttta 600
ggatattgac tttttgttta tttctatttt caaatgctga aaagtcaagt ccagttttga 660
ataccataga aaagcttttg tgcatttgta aattatattg cactctttca ctatataatt 720
tcaaaatcac tggaatgttg ttatacaaga gaattataat tgtgtattgt aaataacata 780
ttaaaatata tatattaatt ccaatagtta aattcaacaa tatgtaattc aagggtgctcg 840
gttctacatg aagtatgagt taactgctca taattaagtt gccaagattc tattatata 900
ttatagacaa attaaaatga tcataattac aaatatgrtt tctttatcac ttaagctttg 960
ggctgattaa tatctgtgtg ggggtcaatg gaaactacat tctctacatt tataaacatt 1020
aatttaatta tttataatttt aggaaaatat atttgaataa aattaatgca ttttctagag 1080
taaattaaaa tgttatttagc aagaaataga aaatttgact aagataattg tgtatatgaa 1140
tcatttttcc cccaagttaa aatgtatcat aatagagagg ctctaataa tcaatttcca 1200
atactcattt ctttcttatt ttgaattcaa gttacaatga ctttacactg tagattttta 1260
tcttgctga tgtgtgctgg tgtgtatgac acaaactcat aagtctggat catgcttggg 1320
tacagtcaat gaatcaaccg agtcactttg aggaatttgt ttttgtccaa tttgctctgt 1380
gctcaatccc atgaattatt aaatttacaa tgtttgtccc caaatgaaaa ccaatataaa 1440
tgaatgatgt ttaaatctgt actttatggg aagttgccta tttgtcagta gatgtgggtta 1500
agtgagtcct ctggtgcagt gacatccttt taagccatct catagggatt taaagaaggc 1560
caataggaat atagatattg gtttttcttt ctctgacttg aactaagtag gagaaacca 1620
accataaacc tattacaaac taccaggcca gaggcattta cttaattcat caactagtgc 1680
aattaaaacc ctgaaaacac atgatccttg ttgactctgc ttggttgaag caggaaagaa 1740
tggtcttgat ggtcagaaaag ttttaaaatt aatggkcagg gcctttcttg accctgtttt 1800
ccaaacacgt tagatattcc gtcttgaggg gattggagta ggctacagt aggggggta 1860
ttttggatgt atctggactt ttaaaaaatg tgcctatatt tatagacca tgaatattat 1920

```

1078

gtaaaaattta tatatgaatt aaataaatat tcmoctctga aaaaaaaaaa aaaa 1974

<210> 1717

<211> 559

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 1717

```

cganacntcc tcactaaagg gancaaaagct ggagctccac cgcggtggcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc ttctttctcc cgcgcttcct 120
tgtactgtgc attcctcatc aacgatggct tctcggactc cacgaaactg cgctgtactg 180
aagggcggaag tggatctgac cgcactggcc aaagagcttc gagcagtgga agatgtacgg 240
ccacctcaca aagtaacgga ctactcctca tccagtgagg agtcggggac gacggatgag 300
gaggacgacg atgtggagca ggaaggggct gacgagtcca cctcaggacc agaggacacc 360
agagcagcgt catctctgaa tttgagcaat ggtgaaacgg aatctgtgaa aaccatgatt 420
gtccatgatg atgtagaaaag tgagccggca tgaccccaty caaaggaggg cactyttaat 480
cgkccgscag accccagatt actacagatt tctccatcta gcgggaacaa cagtgcacatc 540
tgtggggggg attttcctg                                     559

```

<210> 1718

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (830)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1079

<222> (831)

<223> n equals a,t,g, or c

<400> 1718

```
tgtgtaatat gttctgtgtg agcctctgca ttaaactcga tttcttgggc aattatggaa 60
attccagtgt ggctgcagtt taactttgca ctctctatgc atatgaggtt tcctaaataa 120
atgaggagta gcatagttta aaatatatat atcttataac tttctacaac aaagaattat 180
tgagtccaaa tgtcatcagt gtcatttttg agataccctg ctatcgatgg tcgctacaaa 240
ccaggaaata ctcaagttat tatgtgtata cattgggttt agttttatga aacaatttac 300
cttcatgatc tcatagttaa aattgtaata aatttaggaa tataaaggat caatatggga 360
agcaaaatct cttaaaggcag tttctgttgt ttttaattagt atttgtgtag ttcaaaccag 420
gaaggatttg actatcatta gattttgctt aactttatga aagctaaaat attctctgtt 480
ataaaggggc aactccatct ggtcctatag catctttact actgattttt ttttktttta 540
tttgaaaatg caaagaattg ttaaatgttc ttaaatgttc tcaactacaaa aaaagaaaaa 600
agataactac gtgaggtgat ggatatgtta attagctgga ttgtggtaat cattttggaa 660
tgtatatgta tatcaaaaca tgtagtacac cctaaatata tataattttt atttgtcaaa 720
tatacctcaa taaagatgga aaaaaatcga aaaaaaaaaa aaaaaaaaaa aaaaaanaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naac 834
```

<210> 1719

<211> 806

<212> DNA

<213> Homo sapiens

<400> 1719

```
gaaaaaagaa aaattgaaga acataacttt tctacttatg aaatagataa ttttttaaaa 60
ttgttttaaac tcctggaaat taagtgttat tttttattac tgcagttgag agataccttt 120
tcagaggaaa acaagaggct aaattccatg ttaagagcta agtagtattt ttttcttaac 180
aattttgccaa aaattttcttc tactggacca aaaggaaata aatctacaat aaatctactt 240
tctaaatatt attttaagatg ggaaatgtct tttataggta tattctgtat aataccctta 300
attagatgaa ttatccctta tcattccaaa aatgaaatgc tgtgtttaat atctccaggg 360
caaagtggta tggtgactgg gacaaacgtt agaaattgta ttgttcattg cacttggttg 420
cctgttcccc aagcttgtca atgttttagag atactattcg gggttgctaaa gccattattc 480
atagaaaatt tctgccccta cagaagtgtg tgcatgggcc ttggaaaatc tacatgtgta 540
tatctgagta gcgaagcaca gattcactct aattgaaagc agcagtttgg ttttgtaaat 600
gtaattgcaa ttgacacttt cttttccctt tcagttatta ttttttttaa aggacgttat 660
gagaaggcac tatgaaaagc ctaattggaa tagcattatg aaccatgtaa tgcatgcccc 720
tgcacactgt gatttgcaaa catatgtccg ctcttcaata aatgttacgg ctttccaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaa 806
```

<210> 1720

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

1080

<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 1720
gccagatcta tttgcacatc gagaggttcc tctgtccctg catgggctca gtgaccttat 60
cccacctcac tcccatttcc aggtagttag gcaggatgag gctgctccca gccactgcc 120
acatccagat tcagctgctg agtttatccc acaggaaaga ggtagcactg acagcgtgca 180
cgctgtggg tgacgcatga tcctcaggag cagttcacca tgcgctgagc agggccagta 240
ggaggcagct gtggaaggcc aggtacagca gcttcattgg caccaaataa gcctgacact 300
caagcagaca gcagccaccc ccatgcagcc tcagctgcag ggccccaggg ttgctggcta 360
cggcaggagc agcttcagtc atacgtnttg cacaggcacc catctgcctg aaccctgac 420
cctgtgtnan gcaaaaaatg ttatttttaga aaaaaaggga aggttttttt aatactgacc 480
taacttttng ttttattaaa ctnaa 505

<210> 1721
<211> 679
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>

1081

<221> misc feature
<222> (637)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

<400> 1721
gagntcagcc tcactaangg aacaaaaagct ggagctccac cgcgggtggcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagg tccggcgggc cgcgcctccc 120
gcaggcccag aagacggccg ccttgccccg gacccgcggc gccggcctct tggagtcgga 180
gcttcgcgac ggcagcgga agaaggtagc agtagctgat gtgcagtttg gccccatgag 240
atttcacaa gatcaacttc aggtactttt agtgtttacc aaagaagata accaatgtaa 300
tggattctgc agggcatgtg aaaaagcagg gtttaagtgt acagttacca aggaggctca 360
ggctgtcctt gcctgkttcc tggacaaaaca tcatgacatt atcatcatag accacagaaa 420
tcctcgacag ctggatgcag aggcactgtg caggctctatc agatcatcaa aactctcaga 480
aaacacagtt attggttggtg tagtacgcan ggtggataga gaagagttgt ccgtaatgcc 540
tttcatttct gctggattta caaggaggta tgtagaaaac cccaacatca tggcctgcta 600
caatgaactg ctccagctgg agtttggaga ggggtgcnatc acaactgana ctcanggctt 660
gttacttaag tattcactg 679

<210> 1722
<211> 619
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (595)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (613)

1082

<223> n equals a,t,g, or c

<400> 1722

```

gcggackcgt gggaccgagc ttggttaagca gaatagaaaa catccagaat gacatcagtc 60
tggttaagctt tgaaggaaac aaccaaagat ggtcaacaca actgcttggt cttttattta 120
ccattttcaca cctggtgcag tcaggaagct acatttaaaa aacaattttc tctttaaaaa 180
gaaaaacaac ccgtagtcaa aaaagcactc atttgccata aagctggaag gattcattca 240
ttggagctga ttgttcacat ttgtagaatt tagaattttg tggttggaag gggccttaga 300
gttgaataag gtcttcaaaa ggaaacaaaa ggctcttgct ttctgtatga acagagttta 360
ttcacaagtc agttttccgt gatctatgag gagtgatttc agacaattag ctaattgggt 420
gaggcaggtg acctatcagc tctgkararg ggatgkttgc tcttagggat ctacmtaaag 480
aacatatctt acacttttyca tgacagtcaa aagcagcccc attaatcctn ctatgkaatg 540
gccagtcata accacagatg angagtgcac ttcatgaaaa cccttaacag ctgtnaacag 600
ttgatcactg gcncatta 619

```

<210> 1723

<211> 852

<212> DNA

<213> Homo sapiens

<400> 1723

```

ggttactttc ctgcgattat aattcttcct tgactttggt cacttttagat gttttactag 60
tgagttttga tgactccac cccttatgtg agaatgtgca tactttggaa acttgaattt 120
atccaaacaa gctacctatg acttagagtt tgggcataag ttttaaattc aatgctcaag 180
tcgaactgga tctggtccag gccactcca aggggtggtt caggggtggt ttttcagkac 240
ttgtcccaga ccacacaggt agscttgktt ctgarggcag ctttatgggr aggtgtagaa 300
ggtggtgggc agcaaatgca ctgcagagtc attttcttgg gtatggtgtt taagaagcct 360
gagattttca caagaaccag caaaaccagg agtggagagt tggggagata gagaagtagg 420
cctaaaactc cctcttcttg agtctttttt gacttaatac accattgggt ctgtcctggt 480
gctatggcct atcacaaagg actgttttaa gagagaagca agccacagcc ttgccagata 540
agtctccaac accagcagaa aagcacggac cctgatctgt gggaggcaag ggtctcccat 600
tatttctgga ggcaaatggt gccttctagt gaaatggtgc caccatttgc tgatgggggt 660
gcctgttctc aggatgtgtg gaaactcagg cctgaggggt tctacatggt ttattcaatc 720
taactgcata cctagcttgg cagaatggag gtggacaaaa gtgctgaaag gatgagggta 780
ggcttttagg gcaaatcaag tcacaaagca gatgattgag ggaggttaca aagcttaggc 840
agagttaaag tt 852

```

<210> 1724

<211> 697

<212> DNA

<213> Homo sapiens

<400> 1724

```

catcagaccg accagcccaa gaaacatctc accaattttca aatctggcac ccactggaaa 60
tcagactgcc cagctcgccc gacagccact cctggagccc cttaaagctct agcccaaggc 120
tctctgactc cttcccagat ctattcggct tagcgactga agattgacgc tgcccgatcg 180
cctcggaagt cccctggacc atcacagaag ccgagcttcg ggtaactctc acagtggagg 240
gtaagtccat cccctgttta atcgatacgg gggctaccca ctccacgttg ccttctttttc 300
aagggcctgt ttcccttgcc ccataaactg ttgtgggtat tgacggccaa gcttcaaaac 360
ccctgaaaac tccccactc tggtgccaac ttggacaaca ctcttttatg cactctttttt 420
tagttatccc cacctgcccc cttcccttat taggccgaaa tattttaacc aaattatctg 480

```

1083

```

cttccctgac  tattcctgga  gtacagctac  atctcattgc  tgcccttctt  cccaatccaa  540
agcctccttt  gtgtcctcta  acatccccac  aatatcacc  cttaccacaa  gacctccctt  600
cagcttaatc  tctcccactc  taggttccca  cgccgcccc  aatcccactt  gaagcagccc  660
tgagaaacat  cgtccattct  ctctccatac  caccccc    697

```

<210> 1725

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 1725

```

ctgtgagggtg  aggcaggtgt  ctagattccc  tactcagctt  acattaagtc  caaaatgtgg  60
ggacgctctt  tattactgcc  tgggtggggat  ggaagtccat  tgacactgct  gggagaagga  120
ggttcatgct  ggccagttgg  gatgaaagtc  ttagctcccc  acttgggtctt  ccctgacacc  180
actgcagtgg  ggtgttgggg  tgcccccttta  cagcctttttg  agtgtgggat  tctaggatcc  240
ccacttgacc  ttcccctggg  tgggcagagg  ttttttcttt  ggtgtctgtt  gggagtagag  300
cagctgtcat  ctaaaagtgt  tctgtcttgc  tgggacgtcc  tgttctggtc  ctttagctag  360
agagagcatt  cttttgttag  tactttttwt  gctgtgtctg  ttggcattty  catgttgctg  420
gctttttcaa  ctncaaactct  gggatatatg  ntgtaaaaag  aaaaccca    468

```

<210> 1726

<211> 482

<212> DNA

<213> Homo sapiens

<400> 1726

```

gattgaggcc  aaagttataa  agatgggctc  tcgatctact  aatattagta  aaatggggtt  60
gggacttact  aacatttgtg  cttagaagag  acagacctgg  caaagagctt  ggagaagtga  120
gttccaaaga  gagaggtgtg  ggaaccagga  tggaagagtc  aggcctccag  atagcggttta  180
cttctccttt  ctcccttgaa  tcaactgtct  asagataatt  aggttcagaa  gaggaggaaa  240
aaaaagatga  ccgtcaacat  ggagcagagt  ttttcttaga  ccttagccta  gcaaggaaaag  300
agaaatgcct  ggtctcagtg  ctgggaagct  gttycagcca  gagccccgtg  gctgtgaaga  360
gagctctcct  gyctggagcc  aaacagaaaag  ctcataggtc  ttgaggccag  aaaagttagt  420
aggtggcggc  tctggtcggg  gctggaaatg  gaggccagga  tgaactaaga  agcaaaactaa  480
ag                                         482

```

<210> 1727

<211> 1897

<212> DNA

<213> Homo sapiens

1084

<220>

<221> misc feature

<222> (1202)

<223> n equals a,t,g, or c

<400> 1727

```
gctgctgcag cagcagctgc tctgcagagt ggtggccggg gccagggccg ggggtgccctc 60
cctcccacct tctcccgcca tgagccaggg aagtccgggg gactggggccc ccctagatcc 120
cacccccgga cccccagcat cccccaaccc ctctcgtgcat gagttacatc tctctcgcct 180
ccagaggggtt aagttctgcc tcctggggggc attgctggcc cccatccgag tgcttctggc 240
ctttatcgtc ctctttctcc tctggccctt tgcttggtt caagtggccg gtcttagtga 300
ggagcagctt caggagccaa ttacaggatg gaggaagact gtgtgccaca acgggggtgct 360
aggcctgagc cgcctgctgt ttttcctgct gggcttcctc cggattcgcg ttcgtggcca 420
gcgagcctct cgccttcaag cccctgtcct tgttgctgcc ccacactcca ctttctttga 480
ccccattgtt ctgctgccct gtgacctgcc caaagtgtgt tcccagactg agaacctttc 540
cgttcctgtc attggagccc ttcttcgatt caaccaagcc atcctgggat cccggcatga 600
cccggcttct cgacgcagag tgggtggagga ggtccgaagc gggccacctc aggaggcaag 660
tggccgcagt gctattcttt cctgagggca cctgttccaa caagaaggct ttgcttaagt 720
tcaaaccagg agccttcatc gcaggggtgc ctgtgcagcc tgtcctcatc cgctacccca 780
acagtctgga caccaccagc tgggcatgga ggggtcctgg agtactcaaa gtcctctggc 840
tcacagcctc tcagccctgc agcattgtgg atgtggagtt ccttcctgtg tatcacccca 900
gccctgagga gagcagggac cccaccctct atgccaaaca tgttcagagg gtcattggcac 960
aggctctggg cattccagcc accgaatgtg agttttagtg gagcttacct gtgattgtgg 1020
tgggccgggt gaagggtggc ttggaaccac agctctggga actgggaaaa gtgcttcgga 1080
aggctggggt gtccgctggc tatgtggacg ctggggcaga gccaggccgg agtcgaatga 1140
tcagccagga agagtttgcc aggcagctac agctctctga tcctcagacg gtggctgggtg 1200
cntttggcta cttccagcag gataccaagg gtttgggtga cttccgagat gtggcccttg 1260
cactagcagy tctggatggg ggcaggagcc tgggaagagct aactcgtctg gcctttgagc 1320
tctttgctga agagcaagca gaggttccca accgcctgct gtacaaagac ggcttcagca 1380
ccatcctgca cctgctgctg ggttcacccc accctgctgc cacagctttg catgctgagc 1440
tgtgccaggc aggatccagc caaggcctct cctctgtca gttccagaac ttctccctcc 1500
atgaccact ctatgggaaa ctcttcagca cctacctgcg ccccccacac acctctcgag 1560
gcacctccca gacaccaa atgcctcatccc caggcaacccc cactgctctg gccaatggga 1620
ctgtgcaagc acccaagcag aaggagact gagtgccctc gcctctcacc ccctcctcct 1680
cagggcagcg ctaggggcct cccctatgcc tcagccccc atctgctcct gtttgaattt 1740
tgttattgtt gtttggttgt tgttttttta agttgatttt aattttttgt ttggttgatt 1800
tttttgtaaa aaactatttt atatataaat ataaatctat atctatatct attaaaaaaa 1860
atgaagtcca aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1897
```

<210> 1728

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1085

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 1728

```

gcagatattt ttcataagat aaataccac agtgtatagt aatgaacctg gataataaat 60
atcttccagc aaatatttta cttagaagac gattatattt tttaaatttt gagattaatt 120
gaatatatac aaacagaaaa ttaggtacaa atttattatg tttatggctc ttatacaact 180
atcaaggtaa aggaaattta ccaattaaat acaaagtagt aaaattcaaa atcacaataa 240
ttaataatgt tctgctgcta caaaatgaga tggttgggtt aataatagaa ggaagtagca 300
ctgttgaaat agaattaaat gggctctgaa ttcattttgtg attggaatca gaagtcgcga 360
gttctgaaag ggtaagggtt actgcaacat tgctaataaa taatttcaag atgaaatata 420
caaagatgag atccaagctc taacattttac ttgcaacatg aatatggnac tgggttcttc 480
tccgncccca tctcattccc cctnctctnc tgctgctggt ngg 523

```

<210> 1729

<211> 218

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<400> 1729

```

ccggtccgga attcccgggt cgaccacgc gtccggtaaa attgnttttt ntataccaat 60
atatgcatgt tttgtgcatg agtagtactt gtgttgatac tcctgttgat gttaaattac 120
tatataatat aaacagtatg tgtttttata tatcattgtg taaatttaat ataacatatg 180
cagtaataaa ccatttggtt tactgctggt aaaaaaaa 218

```

<210> 1730

1086

<211> 580
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (414)
<223> n equals a, c, g, or t

<220>
<221> misc feature
<222> (555)
<223> n equals a, t, g, or c

<400> 1730
gcaaaagtgt gcacagactg tgatttattc atttgtgtct gtgactttaa cccatcattg 60
atgctctcac ttaggtaaac cctaaagacc aaactagcaa cactagtcaa gggagtgtgact 120
ggagttattt ctggttagcag tagccactgg catcctagaa acacatggac atttgttagca 180
tgaattgacc tatttgtagt gcaatagcta tacatgattt ttattcttgg caaaagaaaa 240
tgcttcaaaa aaaaagtgtat caaacctgca cattgatcct gtaatagcaa atggaaggct 300
atttctctgt actagcattt cagctttatg tgggaaaagt acccggttct ctgcaagtac 360
aatcaaccct tgatgactta agtattaatt attctgggtg taactcacc aagntttctt 420
cctacatctt ttggctaatt ccaccacacc tcagcataca gtcagatggg aaaaggggca 480
gggtggattct catgtcatgc cytcttgkac cttattttca agttttgtgg tggargaggt 540
twaatatctg ccaanaatct ggatttttag cccgggtgcgg 580

<210> 1731
<211> 637
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (327)
<223> n equals a, t, g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a, t, g, or c

<220>
<221> misc feature
<222> (593)
<223> n equals a, t, g, or c

<220>
<221> misc feature
<222> (616)
<223> n equals a, t, g, or c

1087

<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c

<400> 1731
ggagatttag aagcttcact caaatattaa gctttattta aaaagatgat ttccagtatt 60
tcattttata ttcacattaa tcaagtctac atgtttcggt tagagtaaca ggaagatggt 120
aatacgccca gggaactatc tggaagtgtg gaaattggga tgaacaccgt gggtatactt 180
gttttgatct gcctgtggtg ctatgatgac ttattttctc tcattattgc atagaaactc 240
aattcagtga tgttattcag atgttattca taagttattg ccatgattca tcaactttat 300
gtcatcagag ttgggatggc taccanaat aggggatcct ggagatttcc ctgtagacgc 360
tttgcattha taaataatcc tttatcaagg gcagagggat ttctgtagga cttctccctt 420
agaagaactc agcctgggta gaaatacgag gattaacatc agcacatatt catctccaaa 480
aaattttctt cccattact cacacttgcc aataaataac ttgctttggg taaatattca 540
gcactcagtc ttagtccaaa gcatttgctc agcaatcact gtgtanagta canagtaagg 600
gggataccac aaatanaant ttgctctatt ttcttaa 637

<210> 1732
<211> 423
<212> DNA
<213> Homo sapiens

<400> 1732
cacattttct tgcttctttg catgtttctt aatttttttt attgaatgcc aggcattgta 60
tgtaaaggaa tagtagacaa taaagtaata ttaatgacca gaaraaaatc atttctcctt 120
agtcttatta ggccactagt gggctggggg gtggggagaa ggggtggtgct gactgaatca 180
tttaagtgat tttaatttgt aatataattg catgtattag ctgcttctac taatcacit 240
tttgccata agccttgcat ctagaaatat ggcaatatag gaatattact gctttctgaa 300
gtttcatatg cttctcacct tttattttat gtttgatgat tttaatattt ttcctgcatc 360
agagtagtag gaatatcttt gcaacattaa gaaatacttg gtatgggtta cttacttaca 420
ccg 423

<210> 1733
<211> 1281
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1277)

1089

<213> Homo sapiens

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (821)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (976)

<223> n equals a,t,g, or c

<400> 1735

```

gagccaatct tgatgggtggg tgtgggcatta tgtgctcact ttattgagcc tatgttaatt 60
tcttttagcat gctcccccta aattgaaata gtgatgtagt aaatattcag aagcgatttt 120
cttttgcatt tttacctaac caaggaaacg ggccacacac cttgggttag ggatgttgtg 180
atagcttacc ttccagtttt taagaaatgc ttcttrcaac tgctgtcaac cactgtattg 240
tctttaatga acactgttgt atcccatect aattccttgta ctgaaatyat ttctcatgaa 300
agtttctcta atatttctaa tgaaagtttc tctaatttgg gggcataatg tactaaraat 360
cagtttgctg tatattagaa taaatagtaa cagtaagtca gcaggattat ccaaacaaaa 420
gactaggttt tatgagataa gcttgattta agaaaaaac aattaaagta tgratatcmg 480
aaatactgtg kgtttactct cagatttttag ttggttggat ttaatatcaa gataactagc 540
tgctaagcgt ttcataattc tcacagtgat attagatttc aaaatgacac tgagagaact 600
gaaaaactac atcagtcaaa ttcagtgtat tatatcatat agcctttaac tttttacatt 660
aatcagattc ttagtaaaat gcagmctgta tacctaaata ttaaaatatt tacttttata 720
atcttacctt ttattttcaat ataaataaaa ttcttcttag gttaaaaaat taatttcagt 780
tgtgtttatg ccaganggca ttgccttagt tgggtgcaagc nctcaatatg tttcattctt 840
ttttatagtc tttcacattt ataaggaaaa gccttatctc caactgaaac accagtctta 900
ctactacggt tttaaaagtt gttaatgatc cattatctat tataaggcct ttattttacat 960
agcaaattac ttaacnttta ttttgaatat aacagatttt taaaacggga ccttttaaagg 1020
agccctaggg g                                     1031

```

<210> 1736

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

1090

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 1736

```

ccaactgccc gttcaaggcc atgggttggt tggggcccag gaagtgctga accatgtcct 60
aagggaacatt gagctgttca tgggaaagct ggagaaggcc caggcaaaga ccagcwggaa 120
gaagaaattt gggaaaaaaaa acaaggacca gggaggtctc acccaggcac agtacattga 180
ctgcttccag aagatcaagc acagcttcaa cctcctggga aggctggcca cctggctgaa 240
ggagacaagt gcccctgagc tcgtacacat cctcttcaag tncctgaact tcatnctggc 300
cagtgccct gaggtggcn tagcagccca agtgatct 338

```

<210> 1737

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 1737

```

gacacacatt ataatctaatt gagttaagga aaaatgcttt gattcctata caatTTTTtct 60
ataattgctt ttacacatct cattttcaga agcactcctt gttttttgtt tgttattgtt 120
gctgttggct ttcttggttag ctagaagaag acataagcaa aaaaatggac aaagatgaag 180
aggctttgaa ggcagctcaa gcagaactca rggaggcccg acgccagtgg caccacctgc 240
aagtggaaat tgaatctctc catgctgtgg aaaggggsc tgaaaaactcc ctacatgccc 300
gcgagcagca ttaccagatg cagctgcaag acctagagac tgtgrttgam ggwctagaga 360
aagagctaca ggamttaar rcgckgcawc swaaagcagc tttcaagwgc acgwgatgnt 420
tnttca 426

```

<210> 1738

<211> 792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<400> 1738

```

ctgcgggcgc acacagtacg acacgaggag aaagtgccat gtcacgtgtg tggcaagatg 60

```

1091

```
ctgagcccg  ctgacccttt  taatTTTTaa  gartgttcaa  tccgagatga  atcatttgaa  120
gtatttttat  atgtatatct  atttaaaact  aatatattat  taaagcttaa  ttgccatgcc  180
gtttatcttc  tctgaaagaa  cttcaaactc  tacctgccaa  catattcacc  atnawttatt  240
ttttaatacc  tttcatacaa  taactTTTTt  aaaamaacct  cagattgaaa  aagcaacct  300
aattactttc  gctctctaata  cagcattttca  atgtattttat  ttttaaagt  tctcaaaaag  360
taactaaaaa  attgtgtcgg  accctacttt  tgagaaatct  acgtttccca  agttttatgg  420
gaactggcta  ttccttgctc  cggcacacct  tctcattcct  tcctttcaga  gcctaaaacc  480
tcatttgata  agcactccta  gtctctggcc  tgtggatcca  gtgctattct  gtcaccaacc  540
taagaatccc  aattgcacct  tctgtttctg  acagtcacag  gtgacagctg  tgattctata  600
atacagactg  gtgtcttaga  ggtaggaata  atacatgatt  atgaagcatc  accctgctaa  660
tacataataa  tgtctTTTTa  tattataagt  gattgagttt  agttcattty  aatacattgt  720
acatgaaaaa  atgaaaagta  gaacttttga  atactttaat  caataaaatt  aattacccaa  780
aaaaaaaaaa  aa  792
```

<210> 1739

<211> 468

<212> DNA

<213> Homo sapiens

<400> 1739

```
ctacccctt  gagactctgg  ctttctatTT  tatagaacta  ttttaatgat  agtttaaaca  60
tgtataacct  ttactggtta  ttttctgttc  cccttatctt  gggagttcag  cataatgctg  120
tgcggtacag  gataacaagg  tcccactgag  gtgaaggagg  gaggctggga  atgctacagc  180
ctggagtgg  ggtgtgattt  cagtaggtgg  aagggtgtct  tcctgaaagg  aattggcaga  240
agtagattct  tactgattca  gatacatTTT  ccaccaactg  aaggaaggaa  ttattaaagc  300
caatggtgaa  caaagcattt  caagcatttt  ataggaagtg  actagatgag  gagatttttt  360
tcattccttt  tttaatcagc  aaaaaagaaa  ttagtattat  tgaattagca  gattcttcct  420
attctatatt  aagaaagatt  taatttttTg  accaaggaag  gttaggtg  468
```

<210> 1740

<211> 107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<400> 1740

```
gcaactagcc  acgagttgtg  tttcatctga  accttcatcc  ccctcctcct  ggggactatt  60
ttgaaataaa  tctaagacat  cagggccagg  ctcagtgatg  ncttaga  107
```

<210> 1741

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (461)

1092

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<400> 1741

```

ggtttagctc attgttgaaa ctgtttgctt taattcaagt agtctagtgg aagaaagaaa 60
gggtggcatag tagcagttgc agaattgaaac ctggaagaga gaaagctatg tctaacaagg 120
gcagcagctc tgagttgccca gctagttagt agcagttagg atgagaagtg ctgaccaact 180
tttctgtatt ctgaaatctt aggggtcaaaa tatatttcat ctgtgtttta actgtgcagt 240
aggactgtaa agttttcaca atactttggc ttttccatat ttgtatggtt tgtatttagt 300
taatcttaat aaaaatttag acttcaagaa aaattgggag aggaggtgwg taattttgct 360
tgctttctcc tcgttggatg ttgggtctca taactctaatt attgagggtgta aatttttgctt 420
ttgtaaaatt ggactgaagc taagatcatt ccatgagagg ntcanaanaa cttgcacaag 480
tgcta                                         485

```

<210> 1742

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 1742

```

gctggaattc attggatagc aaccaactct ccaaggcatt gttctcagta cagacctggc 60
ctgagtatcc tccaaatctg aactttttaga gatgaatcca aatcaataga gagcagagtc 120

```

1093

```

atagagagtt actgtcagag agcatccagt taaaggggtga atgccagagc ccatgtgtat 180
caatcaatag agtgccacat gcctatattga agtattatac caaagtgtga cacgtgcatt 240
ctgcgttttgt gctatcctat gcctatcatt taaagttgct cccaaagtaa gtcatttggc 300
tttccaacaa ggacattttc tttcatTTtTa caacatgcaa tatatttgta acgacctggc 360
atttttctga attnaagttc accacccttt gcaggacnga naangactgc cg 412

```

<210> 1743

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<400> 1743

```

aagctgggtac gcctgcaggt accgggtccgg aattccccggg tcgacccacg cgtccgtnc 60
tgcggtccgcc caccggtccg gatctactga gtaaagaccc ctgcctttcc tcccgggtcag 120
gggtcctcca gtgcgtgatt tcttggttct ctcaggacat caatgatcat cctttggata 180
ggtagcgaag tcacatTTtTg ctgttaagtg gttgtttttc tattctttgc ccctttccgc 240
agcagcaggt ggggcctcgt ctatgcactg cgctcaggtg cagatgggat cgagataatt 300
gcttgaattc ttgtgcagac ttttgtaatt ctgcagtaga gacaaaagtc ttggaatccg 360
tgctatcaat gtaagaatgt tggaatgctg ttaa 394

```

<210> 1744

<211> 953

<212> DNA

<213> Homo sapiens

<400> 1744

```

gtccggaggc agcagtgtcc acctttcaga ccagttgca ccatcttctg caggactgta 60
ttttgagcct gaaccaattt cttccacgcc caattatttg caacggggag aattttmmag 120
ttgtgtttca tgtgaagaaa actcaagctg cctcgaccag atctttgatt cctaccttca 180
gacagagatg cccccggagc ctttgctcaa ttccacacaa agtgctccac accattttccc 240
agacagcttc caggccaccc ctttctgctt taaccagagc ctgatcccag gatcaccttc 300
aaattcctcc attctctctg gctccttaga ctacagttac tcgccagtgc agctgccttc 360
atatgctcca gagaattaca attcccctgc ttctctggac accagaacct gtggctaccc 420
cccagaagac cattoctacc aacacttgct ctcacacgcc cagtacagct gcttctcctc 480
ggccaccacc tccatctgct actgcgcac gtgtgaggca gaggacttgg atgctctcca 540
ggcggcagag tacttctacc cgagcacaga ctgtgtggac ttgccccct cagcagccgc 600
caccagtgat ttctataaga gggaaacaaa ctgtgacatc tgctatagtt aatagaaatt 660
acagtaattc agaacatggc atgggtatat ctatttttct accacgtcta gatgacactg 720
caaaatatgc aacttggtaa cacaatatcc caagcacagt ttacatgtca ctatttccaa 780
ttttctgatg ctaagcattc atatgaagtc ctcagaccgc gtcacagcgc cactcctact 840
ttgtatgctc atagtttaaa tttttgtagg aaactttcaa ttgttttact ttttgataaa 900
cgaacaaatg ctgtctcctt ttttactaat aaataatttt gtattactaa aaa 953

```

<210> 1745

<211> 392

<212> DNA

1094

<213> Homo sapiens

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 1745

```
agttgatcaa aacggaggga caaaaaacgg ggtgggggtgg gaagcaggaa acagtctctt 60
aactttctcaa ggactcagct ctactaagg agnaatttcc tactgtctct ctgggatgct 120
attgtgatat ttaattaatt ggaattcttt tctcttatga ataatttctc tgagcaacag 180
ggtacaattt tgcataataag gcaatagaac tatagggagg aacaagntca aatgcttncc 240
tttcaagaag gtgccgtata cgtcttatat aaaaatatac attccattaa tcttatatcc 300
tctccctaac cactaaaatg caaatgaaaa tattttatata agacgtatac ggcaccttct 360
tcaaatgctt ccttttcaag aagggtgccgn at 392
```

<210> 1746

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

1095

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<400> 1746
cctccctgca gnttgagatg tgtcnaagag acaggctcta atacgactca ctatagggaa 60
agctggtacg cctgcaggta ccggtccgga attcccgggt cgacccacgc gtccgagatc 120
agttggcctt atttcctcag tggaaatcta ctactatga tgtggtagtt ggcggtgtgt 180
cagctcgcaa taaccatgaa cttcgaaacg tgataagaag cacctggatg agacatttgc 240
tacagcatcc cacattaagt caacggtagg ttttctgagt tgttgccctg cctgggtttat 300
tgaaataaga gttctgaaaa acctagccag gcgtagtggt gtgtgcccgt cgtcccagct 360
accggggagg ctgagggtgga aggattgctt gagcttggaa aattgaggct gcaktgagcc 420
atgattgcac cactgcattc tagcctgcat gatgggaatg agtccctgcc taatttaaaa 480
aaaaanaaaa agggccggcc nccttttcgg gcggnccccg tttcccagga caa 533

<210> 1747
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<400> 1747
agatgctata aaagtaaaag aatataataa tttgctcaat gctcttcaga tggattcgga 60
tgaaatgaaa aaaatmcttg cagaaaatag taggaaaatt rctgttttgc aagtgaatga 120
aaaatcackt ataaggcaat atwcarcctt agtagaattg gagcgacaac ttanaaaaaga 180
aaatgagaag caaaagaatg aattgttgtc catggaagct gaagtttgtg aaaaaattgg 240
gtgtttgcaa a 251

<210> 1748
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)

1096

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<400> 1748

```

gcatgtgnga gacgtgattc tggaagtga cgggtatcct gttgggggac agaatgacct 60
ggagaggctt cagcagctgc ctgaggctga gccacccctc tgcctgaagc tggcagccag 120
gtctctgcgg ggcttggaag cctggwtcc cctgggggct gcagaggact gggctctggc 180
ctcggatcta ctgtagagca cccctgcttg gtacagacat actcaggggc taccgtgtct 240
tcactctcca gcctgagggtg gtgaaggcag gatgctctct ctaaagccag accagaggga 300
ctcagacacc accgatcaca ggctggccca ggtgctccct cccttcctgc ccncn 355

```

<210> 1749

<211> 832

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (777)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (799)

<223> n equals a,t,g, or c

<400> 1749

```

gaaaaaaaaagg ataaaaggaag gacttaagca aaatcttcct tgtaagtaga aggatgtttt 60
gacaagaaaaa gttgcaatgg aaaaatgggt ctcatgtaca cgagtatgta gaataagcat 120
cgtgtgtgga ttggattcag atcaaaacat tgcttttatg tttgtgtctt tatacggtag 180
gagtataccc tggtgcccca ggatgaagac ttgacctgac ccatgtattt ttagattact 240
cacagataac aaaaagtatt ttcattcatga ttagttgcga aaacagtatt atttcaatag 300
gtaaaacgtg cagtcctatg taatcgtcag aaggtaatct taattatagc ttgggtgtgc 360
tttaaaactgc aagctggcag tggagggcac gattcctctg atttcagctt tctccttata 420
cttttctgga gctgtgagct gcaagttaac tcagtgggat taaagtgtag actggaggta 480
caaaagggtga ggagttagga gatagggtag ttcttccttg gctggctggc ttcattratcc 540
ctgggccccg cagataatta aatcgacttt ttctgtctca ggcatttgta tgacctcttt 600
ggaggttccc tgctgggtag ttatccttgt atctgatggg acccatctca atttaaaata 660
cttctgccag ggttcgggag gtttcatggc ttgttcatcc ccagcacttt tggggaggct 720
tcagaggtgc catttggtt tgagcccaa gaattttgag acccagccgg gggcaanccg 780
ggggttgaaa ncctctttnt tccatttaa aaattaccaa aaaattaggc cc 832

```

1097

<210> 1750

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<400> 1750

```
ggagagatga gaatactatg aaaaatatat tttcaaaaaa gaggaaatta gaagttgcat 60
gttcagattg tgaagttgaa gttctcccat taggattgga aacacatcct agaactgcta 120
aaactgagaa atgtccacca aagttcagta ataatcccaa ggagcttact atggaaacga 180
aatatgataa tattttcaaga attcagtatc attcagttat tagagatcct gaatccaaga 240
cagccatttt tcaacacaat gggaaaaaaaaa tggaatttgt ttcctcggag tctgtcacty 300
cagaagataa tgatggattt aaaccacccy gagagcatct gaactctaaa accaagggag 360
cacaaaagga ctcaagttca aaccatgttg atgagtttga agataaatctg ctgattggaa 420
tccagatgtg gatnagatat taactnaaat tatnaggaga aggaaaacttc caccaaggga 480
gcag 484
```

<210> 1751

<211> 772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (766)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

1098

<400> 1751

```

gcgcaagtac gagttcgaaa aggacctcag taagcagctg ggctttcttct ccttccccat 60
caccacagtg ctcagggacc ttccctggg cttaaagaag gtaaaagggt cccgcatcca 120
cctgtcctcg gagacccacc ggagctgcct gctgcgtaaa ctggaggagt ccaaaagggc 180
ccggcaggcc tcccggetca gcacctccca ctgnagcaca gagacaccct ctgtgcagca 240
ggaaccagcc acccacactg cccaggacca ggccacagag ccttgccgt cctctacac 300
caacttgcca gccagccggc agctcagccc tttggagccc aagctctaca tgtctgctg 360
caccggcatg ggttccagtc cccccaagtc caaggacatg gacaatgagg gccgtgataa 420
agccgagatt gaagatgaag atgaggatga gttcaaggat gaagaccagg atgaggacaa 480
ggatgaggat ggagtctaga gcctcccaga gcctggagag gaggcctcgg tcagccactc 540
cgtggacgtg ggccacgggtg acccaccatg aagtccccac tagccactcg attccctgct 600
ctgtcagagt tgctgcacat cacaccagcc cctgccaaga gcaggagtca ccacaggctg 660
aatgcccacg aggagctctg ctgagactct caagggagcc agtgaaagaa atagaaataa 720
agcctgtgyt gctgggacac aggtttgctg tcctgaaaaa aaaaanaaat an 772

```

<210> 1752

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<400> 1752

```

tcgaccacg cgtccgacca gcatgaggta aagaaaagak gcataatgtt tgcctttgtt 60
ttgtttttat tttaaagccc aaggtctttg tttttgaagt aacagcttaa tttttaccct 120
tcataatcag gagagttact tagatgctct ctcatgatt tgttgagggt ggaatgattt 180
ggcagtcctt gaaattttatt ttggggagga ggtggcagaa gagtggagtg taccagggtta 240
tgagatttct cttaacccac caacctaaact tctgttcttt ctgcacctca gagatgaaga 300
agagatgatg atttctcttc ctcaagtcct tcttattctt gctgtcctgt tttttcaggc 360
caagattggn cttgnttggt tgca 384

```

<210> 1753

<211> 222

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 1753

```

atgacacaga ggctgatgtn ttggggcttg tggcttcagg gacccctgat gtggccaggg 60

```

1099

```

ccatgactca caccctactc aggcattctgg cagcaaggcc ccctacccag gccagcacc 120
agcatcagtg tcccycatgc ctgctgcccc ttccaggggt tctaacagga tgggggtggg 180
tctggcagaa ggcagagtta tctgaagcat gggggcagga gc 222

```

<210> 1754

<211> 650

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<400> 1754

```

aaataatttt tacattttgt attttccaac caaacagaat cgggaccagt attcacatct 60
gctaagtgat cattttctgc cataccaagg tcataattcc ttccgtgaga aatatttttag 120
tggggtaaca aaaagaattg ccaaggaaga aaaatccacc caggaatgaa aattaagatt 180
ttgncaatga agaaagaata agaatttgat ttaaaaagac atctggatgt gaactttcat 240
gtatgatcca gaaaataggt acggttttta aatattttat atagaaaagc tacaaagtaa 300
attgagcaat gcttttaaaag ttatctttgt tttatagact tttttgttgt atgtattaca 360
gtctttataa tcttatttaa tgtatatattg tactttcaag tactgatgga gatagactca 420
aaacagttat ttttttacia ttaatctaca aagggaatta atattgttga cttttaaaac 480
atctgctgga tatattatat gcaattaata gtagttaaga atttattcat ttggtagata 540
tgtttatttg gtttttggtt gtcatcgatt tacattgcca ctaataaacc atattgagaa 600
tttctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa 650

```

<210> 1755

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

1100

<220>
 <221> misc feature
 <222> (526)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (541)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<400> 1755
 agtgttccgg gagcaccggg nctccgtcat ctgtctggag ctggtgaacc gactcgtgta 60
 ctytggcagc rcggacagga ccgtaagtg ctggctggca gacacagggg agtgtgtgcr 120
 cacgttcacg gccacagac gcaacgtgag cgccctcaag taccacgcgg gcaccttgtt 180
 cacgggcagc ggggacgctt gcgcccgggc cttcgacgcg cagtctggag agctgcggag 240
 ggtgttccgg ggccacacat tcatcatcaa ctgcatccag gtgcacggcc aggtgctcta 300
 caccgcctcg cacgacggcg ccctgcgcct ctgggacgtg cgcgggctcc gaggtgcccc 360
 gcggtccccct ccgcccattgc gcagcctctc gcggctcttc agcaacaagg tgggctgcgc 420
 cgtcgcgccc ctgcagccgg cctgatcccc cgggggcccc gcagacgcca gccagacac 480
 ccagcggctc ccanagcgcc ccgncctgct acccgcggtg gtggcncccg atggcccggc 540
 naggggcnag gagcgaggaa 560

<210> 1756
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (282)
 <223> n equals a,t,g, or c

<400> 1756
 ggcaacagag cgagactcca tctcaagaaa agaaaaaaaa attgtaattc ttataccctt 60
 gctctgcttc tttatcattg tgtaatttta aaaacaactg rcatatatta tacagggtact 120
 tgtttattgt ctatttctac cactaaaatg gaagctccaa ctgctattag attaatattcc 180
 ctcccaggtc caattttgat tatgttactc tgaccaagct gatcttttct cttcaatcta 240
 gaccttttaa ctacccttcaa aaatacaata aatatgatta tnctagact 289

<210> 1757
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 1757

1101

```

gggagcactt ggagcgggat ctggggcagg ctgggggagcg ccgggctgat gtgtacgtgg 60
gcgtaggatgt gtttgctcga gggaacgtgg tcggaggccg attcgacaca gacaagtcgt 120
tggagctgat ccgaaagcat ggcttctccg tggttttgtt tgcccccggc tgggtgtatg 180
agtgtctgga gaagaaggat ttcttccaga accaggacaa gttctggggc cgactggagc 240
gttatctgcc cacacatagc atctgtctct tgcctttcgt cacgtccttc tgcttgggca 300
tgggtgcacg gaggtctctgc tatggccagg aagaggcggg agggccctgg taccacctga 360
gcgcccagga gatccagccc ttgtttggag aacacaggct gggargggat ggccggggct 420
gggtgaggac gcactgctgc ctggaggatg cctggcacgg aggcagctcc ctgctcgtcc 480
ggggtgtgac                                     490

```

<210> 1758

<211> 855

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (837)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (849)

<223> n equals a,t,g, or c

<400> 1758

```

agaattgaag gagagatgtt gtatcactgt tagaaggctg ctttgggaca ttctgcagca 60
gggaggaggg actgtcaacc cctacaccat gaccaccaag ttsctcacct tsgctgagtc 120
cctaaaactc tctgaacctc aggttcctcc aagcataatg cagacttcac agagctgttg 180
taaagattag gtgaggtcaa ttgatactgc ttaaaaaggcc cgggccgtag aagatgcccc 240
ataaacatta ctgctttccc cstcaccmta ctgcctgaaa atattacacc tgtgagactg 300
acttkgagaa ccagtgtggg tnsaggattg tgcataataa ctatttartg agtaccnaac 360
acaaaaagtca agcttgtaaa atatcaggcc ttgccccaga aagacaaata ccacatgatc 420
tcactgatat gtwgartctt aaaaagtcna actcagagca gagagtagaa tgatgggttat 480
caagggctgg gggaggagg gactggggag atgttggtca aatgatacaa aggttttagtt 540
aggtggaata agttcagaaa atcaattgta caatgtatca attatagtta atagcaatat 600

```

1102

```

aacatatact tgaaaattgc tgagagtagt gtgagtgttc taccacaaaa aaatatgtgc 660
agtaatagat gttaattacc ttaatttagt catttcacaa tatgtacata tataaaaaata 720
tggtgtatgc catgagtata tataattatt atttgtgaat ttaaaaaata aaaataattt 780
ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa 840
aaaaaaaaana aaaaaa 855

```

<210> 1759

<211> 693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<400> 1759

```

tgacactata ttaggnacgc ctgccggtac cggtcgga tccccgggtc gacccacgcg 60
tccgggatct tctgcanttt acctctccgt atctcatttt ccttagattt tatatggttt 120
taatttaaaa gatctaaaag tacactgtaa atgcacagta tatggagggt atagtataat 180
agttacaggt cagcaacaaa tgtttgttct attttccttt ctcttgcag cctctcttgt 240
ctttccaggc aggtgagtag tttcatctgt gatcatttat gctctgtacc acctcctcat 300
ggcagtatgt tacagcagct tttctaccag agcataagga gtcttgcatt tttgtggtaa 360
aagtcctttc tggagaagca gtacaggaag gtttctgggt tgctataacc aggatttttc 420
aacaacaaca ctattggtat ttggggctag ggtaattctt tgttgktggg gtggccagtt 480
tattgtagga tgtttcacag catccatacc tttatcata tgcctycaag gtaagacaac 540
caaaaatgtc ccagacact gscaaatatc ccctggaggg caaagtttta tttgagcact 600
at ttgctaaa atawtghtgt ggatgctatt tacataactg kgkgttcagt tatgaaaatg 660
cagagttgta catatatgat atatgtagtt ttc 693

```

<210> 1760

<211> 2726

<212> DNA

<213> Homo sapiens

<400> 1760

```

gaggcgctag aggcgggggc gccgggaggc gcgggcttgc tcctgggggc tcggccttgg 60
ccggctggac ctgaccctag ggcggttgc gcagctgtcg ggacgtgact gcgttcagcc 120
gcgtcgggcy tgcttccag acttgcccaa gttcgggtgc cctagctgcc cttttgcagc 180
cgctggccta cccggcccgc gggtgagaag gttgcgacgg gaggtgggtg gaactcgcca 240
gcgcggggac cgcggattgg ctgcctcggc tttctctttt ccccggtggc tccggcgtag 300
ggcgctgaag cggccggcag ccggcgaccg gccctcaccg tccgccgggt tgcgctctgc 360
ttttgcggtg aggcgttgac cacgcccata tgaattggag ctctccgcca gtaggagttt 420
ccggaaggag tttgaatttt tgtgattttt atgcttgktt ggtcggtgga atatgttggg 480
at ttatgttt gcctctgaac aagtgtcttg ctcacatcgt aaatgacttt ctctccgaaa 540
cgctaaatat tctttccgc aggagctcat atccttattt tccatgacag atcttaacga 600

```

1103

```

caatatatgc aaaagatata taaagatgat aactaatata gttatactga gcctgatcat 660
ttgcatttcg ttagctttct ggattatata aatgactgca agcacctatt atggtaactt 720
acgacctatt tctccgtggc gttggctggt ttctgttgtt gttcctgttc tgatcgtctc 780
taatggcctt aaaaagaaaa gtctagatca cagtgggggt ctaggagggc tagtcgttgg 840
atttatccta accattgcaa atttcagctt ttttacctct ttgctgatgt ttttcttgtc 900
ttcttcgaaa ctactaaat ggaagggaga agtgaagaag cgtctagatt cagaatataa 960
ggaaggtggg caaaggaatt ggggttcaggt gttctgtaat ggagctgtac ccacagaact 1020
ggccctgctg tacatgatag aaaatggccc cggggaaatc cagtcgattt ttccaagcag 1080
tactccgctt cctggatgtg tttgtctctc ttggctgcac tggcctgctc tgctggagac 1140
acatgggctt cagaagtttg cccagttctg agtaaaagtt ctccaagact gataacaacc 1200
tgggagaaaag ttccagtttg taccaatgga ggagttacag tgggtgggct tgtctccagt 1260
ctccttggtg gtacctttgt gggcattgca tacttcctca cacagctgat ttttgtgaat 1320
gatttagaca tttctgcccc gcagtgcca attattgcat ttggtgggtt arctggatta 1380
ctargatcaa ttgtggactc atacttaggg gctacaatgc agtatactgg gttggatgaa 1440
agcactggca tgggtggtaa cagcccaaca aataakgcaa ggcacatagc agggaaaccc 1500
attcttgata acaacgcagt gaatctgttt tcttctgttc ttattgccct cttgctccca 1560
actgctgctt ggggtttttg gcccaggggg tgaactttat ttcatttcca caggttgaaa 1620
ctggtgagtc cagctaaatt tgcaattcca actttcatcc taagaataat aactgtaatg 1680
gcaaagcgga aatgccagtt cctcctgtat tccattgaga tgggatttca cattttcctc 1740
tcatcaactc ccctgtaata gctagcgtct ttctagyga agagaagaat tcctagaact 1800
tatgcatttt tttcctgctg aatggaagtc ttgagcaatg aagctatatt gtccctacat 1860
attactatat attgaactga aagttcttac ataatcaatg tcaagttttg tcttattttg 1920
ttttgtttgt ttaaaccagt gtaggaaata aaagtgatga tatttaaaat agttctcagt 1980
tgaagcagag aaatgccact gtgctagttg cccaaatggt gtatctattt taaatagttt 2040
aagctgatgt gtatgggagc ctaaacaagt gtagtatcct gaacttctcc cattaattgc 2100
tattcacaat tgggaaaagt gtggagattg gttcctagtg agttttgtgg cctactccac 2160
at ttgttctt ccttcctcag ggtagtgat gaaaaaaagt aaatatcttt ttcatatgtc 2220
cattagaatg tatgaaaaaa atcattttta ctaaaagcaa aagaatttta tcttatatct 2280
aaaaaatata taacttacta tatgtttcag ttgctctctg aacaaaaatt atcttcaatt 2340
taatattgtg aatgtgtttt ctagctttct ttgaattatg tatggcaacc tggtttagca 2400
ctggcatcct gaacagttaa gagtcaactg gaaattattg tatttcttta taaatttact 2460
gtcatatcaa ttgctggaaa atgctatgat tttctatata ttaccttcta agttgtattc 2520
tctcttacac tgtagcctca actaaggcaa ttctgctatg tttgttcttc actatgattt 2580
actgtgtgcc aaaggagttt tgacagggta cagagtattt tactaaaagt atttttaaat 2640
gtttctcatg tgatttctgt accttcttcc tctgccccct tttgcttttt taaagaaact 2700
ggggaaggat ttatgaatac accacc 2726

```

<210> 1761

<211> 1033

<212> DNA

<213> Homo sapiens

<400> 1761

```

aaaagagttt atatacttct aaaagctcct aacttatatc caaagaattg ctttctgatt 60
cgtgtagtct ctcccacaga ttcataaact tttatgactt atattgtttc caggtgggca 120
tggtttattt ccaggtttta cagttcagaa taggggcatt tattttatca tatttttagg 180
tgggttagga gtatcctttc tggagactga gaaaggggtg tatttaattc catcaggtcc 240
agtacagtac taggagtcac aatactttat aatcaattaa ataaatagaa ccactgagac 300
aataatgtat ttttttaaag tggcaaatgt ggttttcttt tttcagcctt tgcgcttttt 360
cagatttttg accataggga gataattttt ttataataca aaagtaacca cttggaattt 420
taaagataat gttatgtgtg tatgtgaaat atatatacat atatatatat atttcctaaa 480

```


1104

```

agaagaaaag ataccctttct gttcaacttg tatcaactcc tcttttctaa ttgctgtgaa 540
atggcaactg ttgataaatt attgtgattg ttttaaaatc taatgggaag taaaatatat 600
tttgatttta ccagacttaa tctgtaaagt agcacttaaa tatactgat agcaacactt 660
aagatattgc atggggatta ctttcctatc atccatatgc atttgtgcaa cttcaaacad 720
attgggtgct tctgaattcc tgatgattgg atttaagcta ttgaaaattg gataatttaa 780
acttaatgat ttttataatt ttctgatctt aaaatttggg taatgcctat aatctgttgc 840
tttttctcaa tatgtgtcct attggaaatt cctcaaactg ttggtgccat cagtatttta 900
caaacaatat tttgatattg cagatgactt gcttactgta tttgcattgt tagaaaacag 960
ttttagaca atgattcttt ttttaataaaa tcaataaatt ctataaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaa 1033

```

<210> 1762

<211> 621

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<400> 1762

```

cctctcggcc gtaggttagg nagattcggg tgggaatgca tgaagctcca cngaagtatc 60
ggtatgtagg gtattctgcc caagccctgt tcgcatacca aaccaggngt taaataacat 120
caggctctgg gggaatagaa agcmggcttt agacaatctg tccatttcta cagtaaaatt 180
ggagtgagtg tgtatatcta cttaaaactt aatagaagtg acttctactt tttgggctat 240
tccagaagta ttttaaaatt attatttaaa attttgaagc cccattttcaa atcttgccga 300
ccttagttca aagccccctg agagatcact tttagaattg aggatttgtt aaaatggcaa 360
gtcatttcat ttgtgtttaa aagaaaatac ccaaaaggaa ggagggagcc ctgtttgcct 420
tgagataaac ggccttggca ttttctggca ttaatgtaga aataatgttc ctatgatgac 480
atattttcaa agaaacactt tcttatttac tgtgtggtgt aaaatgttgc taaatgtgtt 540
gttacattat gtcactgctg aaagtaattt gcactataat aaaggaattt tctacaaaaa 600
aaaaaaaaaa aaaaaaaaaa a 621

```

<210> 1763

<211> 736

<212> DNA

<213> Homo sapiens

<400> 1763

```

gactttctgt gtttacttgt atgaggaaaa acagyacata raggcattcca cagtatttaa 60

```

1105

```

tttgtttgga taacagttac agataaacag gtacacccca tatacaatta cyaatacttt 120
ttatacagtt catatttcag tacatcaaca ctatttttatt tacactctat ttatryacat 180
taacatcttt yttaaattggg attattgtcc atatgcttta ttttttttat tccagtgtatt 240
tcccttttag gaatttatct gaggggagaa tactctgtaa ttactccata atttgcaggc 300
aaatatcatc atagcatttt ttagggagagt aaaaagtatt taacaactta tatttgtctc 360
acattagagg aatgggttaa taaagcatgg tgtattcatt ggataaacta taatgcagtt 420
gttgaaaatg attaccagga gtttttgcta acatttatgg gaacatgctt atgatatgtg 480
aacatttttt taaaaacaag acataaagtt gcatatactg gaaataatac cttcaatatt 540
gaaaaaaaata ctatttagga aaraggacag aagaaaatct gccaatattt tgacagtggg 600
tgcctttgta ttaagaatat aattaagaat ataaaaggat tccctgcctt ttaacatttt 660
tctctgcttt ccaacatgaa tattatacct agtaatcaga aaaaaaacag aggcaatcac 720
tcttatcctt tacatt 736

```

<210> 1764

<211> 1371

<212> DNA

<213> Homo sapiens

<400> 1764

```

cagttaaata actcctgggtg acacttcagg tggtagaatt gaaacacaaa cctgacttct 60
gaccacatgg gtcaaaggca aaaggcaaat ggcttcaaag cccttagtgt gcttatccag 120
ttcaggcagt gaggagataa cctctgcttt cctccctgag gagtttggag tatttaaggg 180
gggatggggg ggggtgtcact ttgaaaatat gttgcttttt ctcttgattg tattgaggct 240
gatatggaag gggtattttct ttctggccaa tactttttgg tatttctaaa tattgcaatc 300
ttgattttta ctattaaatt tgtaatttgt cagttctggc ttttttgcatt aaagagttgg 360
tccattaact tgccaatttg aagcttctaa ctatgatatt cctactgaaa gttttggatt 420
tgtttttagt ttgtggagca gtcttagctg gggacaggta attgacaacg gcagagatac 480
tttcttttcc taggattcta agtctgtaat ccacatcctc aatgtattca caggacttta 540
aaattctctc caaatgagga aggaaatatt ctgttgcttt ctaatgttta ctaaaagtgt 600
tgtttagaac aacagatttt aataggcatc ttcctttgtt atgtgtcatt agccctttgc 660
ccgtttacct tagggctctt tgaaggagaa atggatggga gaaaacctgt cacttggcga 720
aagtaaaagg gataattaac tggctcagag cttatgtgca gagttccaag ccccaaagtt 780
aatctagaac cactcgataa caccaataaa aatattttatt tcacatctgt tatatatctg 840
gaaaatgttc taagcatctt acacatattt ctcatataat ccacagggtg ccattgtgag 900
gtagatattt tgttctaatt ttccagatga ggaagctgag accctaaaag gctgaccggg 960
tccctgatgt gttacctgct tctgctactg atccaaactg cagaacttct cattcatccc 1020
caaggcctcc aggcagtatc caatggggaa tcagctctaa aaggaaccag accaacgttt 1080
tccagccctc tcattctgta gcttccctct gtgtgaggaa aggatagaaa tgttcaggac 1140
atcatcatac aggctcctca tctacaaagt tccagtagca gtgacgcta cacggaagac 1200
ttggaactgc aaacaggctg gggtcacctc agtgacatct gacgctgtcc aaccagaagt 1260
tcgatttttg ttctgggggt gaaggaggaa acagactgta ctaaaggact aaaataattt 1320
gtctatamwa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattccc c 1371

```

<210> 1765

<211> 766

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

1106

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738).

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (757)

<223> n equals a,t,g, or c

<400> 1765

```
tacgcttctg ggcataatac tgaaacacaa aactgctttt gctctctctg tggttggccg 60
aaaataggat tctttttcgt gcagggtgtcg ttgttttagtc ggcttttacta acatattgaa 120
atggctctac ccaaagacgc catcccctcg ctgtccgagt gccagtgcgg gatctgcatg 180
gaaatcctcg tggagcccgt caccctcccg tgtaaccaca cgctgtgtaa accgtgcttc 240
cagtcgaccg tcgaaaaggc gagtttatgc tgtcccttct gtcgyccgcg ggtatcgctg 300
tggactcggg accatacccg aagaaattct ctgctcaacg tggaaactgtg gacgataatt 360
caaaaacact atcccaggga gtgcaagctt agagcgtctg gccaagaatc agaggaagtg 420
gctgatgact atcagccagt tcgtctgctc agtaaacctg gggaaactgag aagagaatat 480
gaagaggaaa taagcaaggt ggcggcgagan cgacgggcca gcgaggaaga agaaaacaaa 540
gccagtgaag aatacataca gaggttggtg gcagaggagg aagaagagga aaaaagacag 600
gcagaaaaaa ggcgaagagc gatggaagaa caactgaaaa gtgatgagga actggcaaga 660
aagctaagca ttgatattaa caatttctgt gagggaaagta tctcggcttc tccctntgaa 720
ttccagaaaa atntggtncc agttacaccc aagtcctngaa aaagga 766
```

<210> 1766

<211> 736

<212> DNA

<213> Homo sapiens

<400> 1766

```
ggcagagggtg gagggcacgg aagggggtttt mccattcatg ttgtataagt gaaccagacc 60
accctgatgg catccacagt gatgtcaagg ttgggggctgg ccaggggtgg gtggactaga 120
agcatttggg agtagtggcc agggscctgg acgctagcca cggagctgct gcacagagcc 180
tgggtgtccac aagcttccag gttgggggttg gagcctggga tgagccccgg cagcgccttg 240
gcccttctgt ggtccctgcc agcctctgac ctggggccggg cagtcattgc tggactctgg 300
ccacacactg gcgttctcat ccacttgga acaagccagt cttttctgca aggtcagttg 360
accaagagca tatttcccct ctgttgta ca tegtgtttt gtgtttgtgt tgtaacagt 420
ggtggaggga ggggtgggtc tacatttgtt gcatgagtcg atgggtcaga acttttagtat 480
```

1107

```

acgcatgcgt cctctgagtg acagggcatt ttgtcgaaaa taagcacctt ggtaactaaa 540
cccctctaag agctataaaag gcttttagttc tgtattgatt aagttactgt aaaagcttgg 600
gtttattttt gtaggactta atggctaaga attagaacat agcaaggggg ctcctctgtt 660
ggagtaatgt aaattgtaat tataaataaa catgcaaacc tttaaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaa 736

```

<210> 1767

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 1767

```

naacnggnaa gctgttcccc tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt 60
ccgagcctac tctggttaag atgttctttt cctcaaaggt gccctagtgc catgatttaa 120
atatttttat taccattttg aaatggagaa gccattctgc atatgccttt gaattcctgc 180
ccctctttac cacctcttcc tccccctcaa aggaaaaaca tttcatccaa gtaagttaac 240
ggcattttct gtaggatttt cttatgcact gcacactctg gacctcacct gcagatacag 300
ttccccctt gccaggagca tctgcatgtg gtacttctct tttccctcag ttgatatttc 360
ttatatgata ttctagatac tatagaactc aatttgtcag attcagtata acctcagatt 420
ttgttacctg tcttttaaaa atgcagattt tgtcaaata aataaagatc aatggatgtt 480
gggtataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 521

```

<210> 1768

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1768

```

aaaagaaaaa aatgacatta aattttgtca agatagcata ttgaaaatat aatagaaaaa 60
tatttgttta tctgctataa tatattatgt catagggtgtt atcttcagga aggcacactg 120
gacctgctaa attaacaaat ggaaagaaag cgtaagtact tgaagacgtt tacaacttca 180
gatttcaagg aatttttctcag gtctttgggc tggatgacat gtcgtctacc ccagaaaatt 240
aggtaggcct ctaccatcac aagctctgag gaacaatttt tcatgtctac ccattgtta 300
catttttagta ttttaacagtc tttctgatct tcagaatgtg tttataaatt catcttgtac 360
atgggttgac aagctttctt gtctttgctg graagraaat gactacttac taatatattt 420
tgggrraaat attkgtaaga atattaataa gct 453

```

1108

<210> 1769

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<400> 1769

```

ccctataggg aaagctggta cgcctgcagg taccgggtccg gaattcccgg gtcgacccac 60
gcggtccgggc gactggcagg acgcggtgca gagagcggac ttccgcgacg cggaacgtcc 120
tacagtgtag gggaagcaat ggaagaactt ctacctgatg gacaaatatg ggctaatatg 180
gatccagaag aacgaatgtt ggcagctgct acagctttta cccacatctg tgcagggcag 240
ggtgaaggag atgtcaggag agaagcccaa tctatccaat atgatcccta cagtaaaagct 300
tcaktagccc caggggaagc acctgctctt cctgtgcaac tacagtaccc acatgtagaa 360
agtaatgtcc cttcagaaac agtctctgag gcctcccaaa gactccgaaa gccagtgatg 420
aagagaaaagg tgctgcgcag aaagccagat ggggaagtat tagtaacaga tgagtcgatt 480
atcaagtgaa tcagaattgg tacagaaaat gatcangatc tcttgggact taagacaaan 540
gctggatgaa tgncaagttcc aggaagacaa ngaatcttca tttgatgggt cacaacaaat 600
taacctacca catgaatacc cangaatttc tcaaga 636

```

<210> 1770

<211> 643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1109

<222> (632)

<223> n equals a,t,g, or c

<400> 1770

```

tcctcactaa gggaacaaag ctggtgctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttcggcacga gcacgagtgt gcacatgtgc gcgcacacac 120
acacacacac acacacacac agaacttaac agcagtgatg tgtgttgtaa tatgcaactt 180
tgtaagttac atatcactcc ccaataccac cttctcagtc acggagtaga gatcttactt 240
cacaagaagt gagactcaga gaggtgaagt gacctgtgca aggtcaccta ttacagtgcc 300
agagttggaa ctaaagggaac ttcagtctgt gaacttcagt gtctttccag tagcataattt 360
gcagcagaag agtcaagaat gttgtgagct gcaactctca ctagaaccaa atgaccttat 420
tgggagatgt tagtccagcc ttaaaaacaa gctcttcacc tccatgaatg gcaagtgtct 480
gccctcttca ggccaaatcg agaatgacat ctataactga ggcaaatect tcagraaccc 540
aagtcagacc ttgggattat ttgctttttc agtaagttct kggteccggg ctgtgtcttc 600
ttaactcttg ctgttggggg acccttcagg gnaagcttac cca 643

```

<210> 1771

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (721)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<400> 1771

```

catattttaa aaaatatgtt ttctgtgtgt tgccaaagaa tagaaatgca attgattttt 60
taatatttaa cttatatcta gccatgggat tgaattcttc taatttctaa taatttgtct 120
gtcaatcatt ttattctttc taggtaaata tgatactata ataaattttg cttctttctg 180
tttctttcct tttcctatta tttacttttc ttgcattact aggctacttt ggacctttaa 240
taaaatgtga aaaagcacat ttatctttat attgatttta aacagaacac tctaaatacc 300
ttattatcgg taagactaat grctgctgaa gaattttact gggttgagaa aactgttatt 360
tatattgtgt taaatgtttt cattataaat ggggtgttcaa ttatatcaat tttattttct 420
gcatctaatt ggatgatcat aagacatttt tctcttttaa tctcttagta tgataattta 480
cattttttgga ttttccagaa acatcttttg attcctagaa taagccagat ttatcacaag 540
tggattatct ttatcagata tatggctgct cttgagttac taatctttta cactttttgtg 600
tgtaaggaat gtttttaatc taggtgaaat tttgaatcta tgctcatgag taagaatatc 660
ctttctcata ctatccttat ctggccttag tactgagctt tagattatct tggagggttc 720
natttccctn cctt 734

```

<210> 1772

<211> 396

<212> DNA

<213> Homo sapiens

1110

<400> 1772

```

gcggacgcgt gggaaaaaaaa agaattactt gagatgcttg ttgaatatgc atattcctaa 60
gccagccct aaatctactg aatcagaatt ctatttttta tgtacactcc agatggttct 120
gatacttgaa caacgctata tttagcattg gttaagtaca gatattttgt ttttagccta 180
ttgcagaatt agctcaataa ttcataaaaat gggtaattat tcataccaat gctaaactca 240
gtatttatta catcaaaaatt tttaatgtat tggctaattt tggtaaagct aagaccacca 300
gtgtgaataa ggatggattt ttggttattt gccactgara ttttttagca tagatcccca 360
gaattatttt taggaaaagg atatgctgtg cttagc 396

```

<210> 1773

<211> 786

<212> DNA

<213> Homo sapiens

<400> 1773

```

gagcttttagc tcgcctgccg ctcaccttgt gctgtgcagc ccggttccta acagaccaca 60
gacccacac caggtctatc tcatttggtc tcagagctgt gaatcagcca gcaatatttt 120
agttgcaaat cactgaaaac ccaactcaaa gtgacttaag tcagaaaagaa attttatgaa 180
ttcaggtaat taaaaagtc agaatatct gcctttaggc acagctggat ccaagggcac 240
aaatgatgtc atcaggctcc agttattctc catctcccag ctcagctttt tctgtctgta 300
agcctgattt tcaggaaggc tctttcctag tgatggagat gaccaccatc agctccaggc 360
ttctatcctg ctaacccagt aaccagtggt gaagagattt acttattcca ataattccaa 420
gtggagagtg tcattgaccc gtttggggtc tcactctctac ttctagggga atgaaacact 480
ctgagtggcc aggctgtgt catgtgctaa ttcttagagc cagggaaaata aggtctgagg 540
attcaggatg ggtgaaaagg tggttgctta aaggaaaatg aaatacaatt agcagaataa 600
ggggaaacga gtggtctgct ctgctcgggc aaaacaagag atgcccatta ctgtgaggga 660
cccttgaagt ctggactctt aaatgggttt ttgctgattt cctgggtgca tgctaggatg 720
atggggcttg atgcagtagg gaagagacga tgtaaaaata ataaacaata tataccttca 780
aaaaaa 786

```

<210> 1774

<211> 676

<212> DNA

<213> Homo sapiens

<400> 1774

```

ggcacgagac tgaatattga aataatgtaa aagacctatt tcccgttagc tttaacgat 60
ttgtcataaa cacctttctt gtatatgatt tttaaatgtt tgctaaatat taaaaagaat 120
tcaatgtgtt tggtttttga aaattacata tcgaatgtgt ataatttttt actaccatgt 180
tcatcacact taatctatat ccatatattg tactccacca atatttatca gtggacaata 240
aagaagtttt gaatgcatga atgcaactta agaggcacca cacttgggta ttttgcaatg 300
ccagaataac ggtgggtatt cacaaattga atagataatc cagattatgw ttcctcccaa 360
tttaagtttt tctgggtttt tttttcccc ttcctagaat caattttatc attttaccta 420
tgtacaataa tatacttcct ggaaaatgcc tagaattttc accatgtaac agaatttgag 480
catgacagta wtgtaaaaat attcagaagt ctcgaactat aggtttgagt tttcaaagta 540
aatcaaaatm cagctgtttt cattttacta gattgtggaa acctatggat gttattgtaa 600
aatgcatatg cattacactg actttcttaa aatgttttga attaataaag aattcaacaa 660
tgtaaaaaaa aaaaaa 676

```

<210> 1775

<211> 423

1111

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<400> 1775

```

ttactatcta agtatgcaat tcttagggaa aagtgcctgg aatcttgcaa ttccaagata 60
tccattgtaa ttactctgga tttaaataga actggtctcg tagcacaaga attcctgata 120
gcaagatact tttcataaga taccttcaac ccggttaatt ttttttctgt atctgataag 180
gtaaagttta gttcaagagt acagaacaca tttatttact tttttgtctt tctgaaagta 240
caaaggacca cccttatcaa tctgtctttc ccagctactt ggaactctac gtgacttttc 300
tctttgtgtt ttatagaaat acgtttgttt ttatgatnca tttttgaaat tgtgatttng 360
tagggtatgc agaggagnaa attcgggaaa atttttaagg tattctgaag aagacacttt 420
aac 423

```

<210> 1776

<211> 671

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 1776

```

acgttggtga aaactgcttt cccctttgaa tggctcttggc ccccttgtgg anagtcactg 60
cagcataaga gttagccttc atctctgggc tctcctctcc tgtgactccc gtaatgtttt 120
actcatccac ttcatggtgg accaccctct ggctctgtcc actctgccac ttttttcctc 180
tgctcctcac aggatcattt ccattgtaag tgtctccagc ttgctgattc tttattctgc 240
ctgctcagat ctgccggtga accctctagt gaatttgtaa gtgtcagtta ttattttcag 300
ctcttctagt yccatttgat caccttcata attcctatct kttgataycc tcattgtgtt 360
cctctgtgat tttcctgact tcctgtagtt ctgtgtccat ggcttccttc agttcttcga 420
gcacatttaa gacagtcggt ttaaagcctt tgtttactaa gtccaatgtc taggccttcct 480
tgggcatggt tttgtcagtt aaatatcttc ctttgaatga gtcatacctt cctgttttat 540
ttgctttaga ttttaggtca ctaaatcttc ctttgtgtct aaactgctgt taaacctatc 600
cattcagttt ttaatttggg ttattgtgtt tttcagttga attttttttt aaccktatct 660
cctgtatctt t 671

```


1112

<210> 1777

<211> 1779

<212> DNA

<213> Homo sapiens

<400> 1777

```
gctcgtgccg ctcgtgccgc tcgtgccgtt cattcagaag gtggagataa gtaataccta 60
ctcctaaatt tttatcctga tagtgagaaa atatataagc attttggaac tacagaacac 120
catacaaaat tagcattatt agtactgcat tatcttgtgc tcttacaatg ttttgtgtat 180
atgtatactg attttctact tagaatgtaa ctgttgTTTT gtcaagtgtc tttttcccc 240
cagcctttcc taggctagga tatatgctaa caagtactat taggagctgg cttgtgatca 300
taatgccaac tatagataag gcaagtagta gcctagtagt taactgaagt ttcaagttag 360
tcatgtatag tcagtttttta ttatcatgtg aataaaataa aattgttttc cttttctttt 420
cattcaggaa aagttctagg aactattttg gtgcacaacc acattataga ttatscttgg 480
gwgatatgcc atttgtagct ggggaaggtra gttggtcaaa ctccggattc tttttataca 540
acattgatcc ctgaattaag tccctgcata tscaagtatg tctacaaatg gaaggaacat 600
tttyctgtgc ctttaccagt gtgtggatca tgcctttacc agtgtgtgga tcacagtgaa 660
tgtgaaaatg agatgtaggg aggttttttg ggattagggg agcaaggaag agatggggag 720
gataccttaa agtagataaa gtatatgtgg aaaggaagtg ataaaacaga gaccctaagt 780
tgaagaaggt gttgtttcag ataggggtca aggaaataag aaatagtatg tttgtagcat 840
tggattttta gtatcmatcc tgttgagtta catttagata taggtagata ttcgaataag 900
cacgtagcac attctgcttg tcctcacatc cagatcattt ctaggactaa ttctccaaga 960
agcagtcata cgtacacttg aatcttcagt ttcttcagca cttgaatgta aagctgtatt 1020
gtcatatatc aagtactgag tgaagtrcct aaaactgtgc tagttgacac tactttataa 1080
gctgtttgtg ttgctggtgg ttttatatTT agattccaac tagattgtta ttctggcatc 1140
ttgggaagta aatgttcttc tgaattttgt atttgtttat atttatttat tttaaacccc 1200
tagtaaaattc gcagtgaat catggggaat ataataaatt agtgggtgaca agcatttgaa 1260
aaagggtacag ttgacccttg aacaacatga gtccgaactc tgtgtgggtc tmcttacagg 1320
cagatTTTTT ttttcaataa gtatcttgga aaatTTTTtg gagatTTTTg gcaatttgaa 1380
aaaacttgca aactatagct tagaaatatc agaagttaag aaaaagttgg tatgtcatag 1440
atgcataaaa ttgactatgt caatactagt gcattttatc atttaytacc ataaaatata 1500
cacaagtTTT ttttaattat aatttatcaa aacaatttgc acacagacta cgtgacgcca 1560
ttcacagtcc agagaaatgt aaacagataa agatgcagta tgaaatcata actgtataaa 1620
attaactgta gtacatactg tacgactgat aattttgtag ccaccttctg ttgccattgt 1680
gatgagctca agggttggga gtattcactt aaaatgccac gtgacgctaa tcatcttcaa 1740
atgagcagtt catctctcca gtcaattgtg tatcacagt 1779
```

<210> 1778

<211> 559

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

1113

<223> n equals a,t,g, or c

<400> 1778

```

aaagaagaca cattcacaac cagtggtaga gaaactgtgg tttatatgcc cctcttagaa 60
taactcttca ggctctgttt atagccctgg gttcatgcat gataaagtag acagcaacac 120
caccatacag tgcagaggag tggcaagaga ktaaacggaa aaggagatga aaatagacca 180
aktggagaaa ggcttggtcm aaaaaggarg aaaaggaaga tcactatgga atawtaraga 240
kttgaaaaat gaagtgcac ccaataacag gacgggacaa tcagagatga cttgggttgta 300
gtgtggaaac cagtagggac cttgggaagc tgccaaaccc tttctagctc tgggctcagc 360
tgtaagaact gctgattcct acaggaacac ttggacaatc caatacctaa atgttaacca 420
tcaattaacc cagtaaacct gcaagatgga aacgaagatt tgttctcacg agtttcacgt 480
gattatttaa aacacttctg ggggccagta gccaaactggg gtcttnccca ttgctgccat 540
cnatggtatg aaaagtctc                                     559

```

<210> 1779

<211> 786

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (770)

<223> n equals a,t,g, or c

<400> 1779

```

gcaagtcttc cattyttcca ccattgattt ttccctgccac agatattgac cgcattctcc 60
gtgctggctt tactttgcag gaagctcttg gagctttgca tcgagttggt gggaaatgcag 120
accttgcaact tcttgttttg ctgcgaaaaa acatcgtagt tcctacatga ctgtgggaaa 180
gtgggctaga ccgttctcca ttccctttta acaaaagaaa gctctctcta tatacacgca 240
cacatacaca ctcgccacat atacagtata tatagaaacc tgcaagcaga atgttgagcc 300
agattttttt taaagatttt ttccggccaa agtaatttat gatcttttgt ctgatgaatt 360
tgtctatcct acttgttaaa atttaggcct ttttaaatgt attggcagta tgtgcataca 420
gaagcttttt attctcatta agatgtatcc tggaataaaa tggatggttt tgtgtgtarc 480
atactgtttt agaatgagag taaatgcttt gaaaagcaga agccatgaga aatcccmcta 540
cccatccagc taaaaacaga tgaactctcc acactgtgac tgtgtgtctg tgctgatggc 600
aaggatgggt ttgctggctc arttgtcaat ttagaaactt ttgaccacat aatttgggtgt 660
ttggaattct acccagtgct ctgtgtatca tgatkcatta attataacag gaaattggag 720
aataattgaa tatcttatcc gtagaatgnt atgttttnat ttgtgtgctn aagatttgac 780
ttttaa                                     786

```

<210> 1780

1114

<211> 688
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (634)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (652)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (657)
 <223> n equals a,t,g, or c

<400> 1780
 caacatggtg aaatcccgctc tctactaaaa atacaaaaaa ttagccgggc atggtggcgg 60
 gtgcctgtaa tcccagctac ttgggagggt gaggcaggag aatcatttga acccaggagg 120
 cagaggttgc agtgagccga gatcacacca ttgcaactcca gcctgggcaa caagagcaaa 180
 actccatcta aaaaaaaccc acatttttcat gaatatcagc catcaacaat gcagaaagta 240
 atagaçtagt cttctgaatt attaacccta gcaattgtca ccaagtgaaa acctygggtca 300
 ctaaaacttc ttggaatagc attcaagggtc ttgctttaac aaaaaacccc aaaacttggc 360
 ggtacaaaac aaccattttc tgatggatcg ggaatccatg tctgaagtct cagctaagaa 420
 gactccaagg ctgggttcca ggctggaact gcctggggca tctccccaca cacacactgg 480
 tacttggctg gaccaccagc aggttctact ccccggtgtt cttcrcagtt tgtcagttgg 540
 gctgatttgg gtttgctcac agagtattca gccaaagatcc caagatcaag tatccaccgc 600
 ggccccggcc ccaatcatct tgttttttaa acantcgttt tttgaggcag gntaggntat 660
 ttcatttcca gatttttttcg tgttacct 688

<210> 1781
 <211> 548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<400> 1781
 aagtctattg gcatcctcga catcttttga tttgaaaact ttgagggttaa tcacttttgaa 60
 cagtttcaata taaactatgc aaacgagaaa cttcaggagt acttcaacaa gcatattttt 120
 tctttagaac aactagaata tagccgggaa ggattagtgt gggaagatat tgactggata 180
 gacaatggag aatgcctgga cttgattgag aagaaacttg gctcctagcc cttatcaatg 240
 aagaaagcca ttttcctcaa gccacagaca gcaccttatt ggagaagcta cacagtcagc 300
 atgcgaataa ccacttttat gtgaagccca gagttgcagt taacaatttt ggagtgaagc 360
 actatgctgg agagggtgcaa tatgatgtcc gaggtatctt ggagaagaac agagatacat 420

1115

ttcgagatga ccttctcaat ttgctaagag aaagccgatt tgactttatc tacgatcttt 480
ttgaacatgt ttccaagccg naacaaccag gataccttga aatgtgggag ccaacatcgg 540
cggcctac 548

<210> 1782

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 1782

aaaaaaaaa atctatattt tatrgaaata ataaaaaact aaccttagct tactgtaaat 60
tttctagttt agaaacttat ttaaaaacaa tttttggact cttctagtaa taacgtagct 120
taaaacacac attgcatagc tgtacaaaaa tattttcctt atatccttat tatataagct 180
tttatctatt taaattttga attttttaaac tttttggtca aaaaccaaga caaacacact 240
agcctaggcc tatgcagggg caggatcaag acatccctag caggtgacag gaatttttca 300
actccattat aatctgtggg gccaccatca tatatatatt gtacattgac cgaaacatgg 360
ttacatgact atataatttg cgtcaatact gctcagtgtg ccatatttaa atttacatga 420
ctatattgtg atattctttt caaaataaag tttatttggg agataaaaaa aaaaaaaaaa 480
aaagtnggcc gcagcttatn ccctaggngg ggtaattagc tggcctgcgg cggtttaacg 540
cggctnggaa cccgngtcc acttacc 567

<210> 1783

<211> 537

<212> DNA

<213> Homo sapiens

1116

<400> 1783

```
gcacctatga catagtaaac ttgaagaata aaaactaccc tcagaaatat ttttaaaaga 60
agtagcaaat tatcttcagt ataatccatg gkratgtatg cagtaattca aattgatctc 120
tctctcaata ggtttcttaa caatctaaac ttgaaacatc aatgttaatt tttggaacta 180
ttgggatttg tgacgcttgt tgcagtttac caaaacaagt atttgaaaat ataatgtatc 240
aactgaaatg tttccattcc gttgtttag ttaacatcat gaatggactt ctttaagctga 300
ttaccccaact gtgggaacca aattggattc ctactttgtt ggactctctt tcctgatttt 360
aacaattttac catcccatcc tctgccctgt gatttttttt aaaagcttat tcaatgttct 420
gcagcattgt gattgtatgc tggctacact gcttttagaa tgcctcttct catgaagcaa 480
ggaaataaat ttgtttgaaa tgacattttc tctcataaaa aaaaaaaaaa aaaaaaa 537
```

<210> 1784

<211> 614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (574)

<223> n equals a,t,g, or c

<400> 1784

```
tgggtcaatc tcaggttcca gtctcagaaa ctgcaggttg ttgtcacctt tctgtcagca 60
tggatcaagc ccctaaaaatg tggtaagtgt tgtcagagca gggcaatatc tctactctca 120
agtatgaggg gaatagaaac aaagcagcag ttttagccag ggttcaatga tagagtggag 180
gtaaattaag agcctccagg ctgtgattca ccat ttgaga cattatacat aatttgtttt 240
tgttataagc cattttgaatt tttaaaaaat ttcatacatg caatggaata tagatatgta 300
tatacacata taatatatat gctaaagtat aaagagtaat aataatgaca ataaacaaac 360
ccctgtgtgc ctaccaccca ccttattgcc tttcctttga ggtaccgtgt gcgggtttcct 420
gaacctatct ctatccctgt ctgatagagg gaaccctgt actgaacttt gtgttgacca 480
tagccttctt gtctttcatc actttatctc catgtatgta tccttaaaaga ataataaatg 540
gaattaaact gaaaaaaaaa aaaaaagggc ggcngtctag aaggatccaa gctacgtacg 600
cgtgcatgcg acgt 614
```

<210> 1785

<211> 495

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1117

<222> (460)

<223> n equals a,t,g, or c

<400> 1785

```
aaaattaacc ctcactaaag ggaacaaaag ctggagctcc accgcggtgn cgaccgctct 60
agaactagtg gatcccccg gctgcaggaa ttccggcacga ggcggtgtct cctctttgaa 120
attaagaact atctttctyg tagcaaaagct gcacmtgatg atgctgcctc tcctctctgt 180
gttgctctggg cccttgttta caagcacgcg ttacccttcc tgaggggagc catgctctag 240
cccctggagg gctgttgca ggggcagggc gggcccgttg cctttggcag ctccctggaga 300
gctgtggaca tgcagtcccc ctcagttcgt gctgcaataa aggccatctt ctcttatttc 360
tgccctcctt tctctttgga ccctggagcc acaggctcag cctggcctgt cgncccggct 420
tgtcactgaa aagccccgga taccaagaag tcaccacacn aaagtgggag aagaaataag 480
atggccttta tatcg 495
```

<210> 1786

<211> 584

<212> DNA

<213> Homo sapiens

<400> 1786

```
ctgctgagag ttggtaaaga ggatggtcga gtgagatggt gttgacctcc ctggatctta 60
tgtcactaca tcctggacct caagaggggc atccaagctt tttgaaagct gaactccttg 120
actggagaaa cctagacaag aggcggggcc aggtgcttga tatctaggag gcattcttcc 180
tcttcccttg ccaccatgga gctgggcaca gtaagccata ttgtttcctg aagcaggagt 240
cccaggcctt ggctagagag ggaacagatg tctaacaaaa agagaagcaa ttcgaggaat 300
tgatgaagca caattaaaat cctctctggc tagtagctct ctggcttctg ttcatttgaa 360
gaataaatct tggctgacag tgggaagcac caggtttgaa atcagatggc tttatttttc 420
tttttttggc atttaaatca gtgaaataaa attattactg gagagcacag ttcgatttaa 480
gagaattcct cagccctgtt ctcaagtctt cttttgaaat tccatgacat ggtggwtaat 540
gggtaaaaatg attaatgcct cctttgggtc ttmtactgat caga 584
```

<210> 1787

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1271)

<223> n equals a,t,g, or c

1118

<220>
 <221> misc feature
 <222> (1298)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1313)
 <223> n equals a,t,g, or c

<400> 1787
 ttttttagatc tgcctttcttg ggatgtattc maggatgcta gccgtgtttg agactgtaaa 60
 tatgtctagt gaatagggct tcaggctgtg tgtgtttgcc ttgttttgca cagaattcgg 120
 cacagcccca agcacagatg ggtgcttcat aaatattgtt gaaggatgat gacacaaagg 180
 attatttaat acctctgacc tcaggccaca aacatacttt caatgtgttt tactttctgaa 240
 atcatattgaa ccaraatgtt tcagcaacac agattcatct gcaaccacaa atcagacaca 300
 tttagaatga caaagcccca aaagaatgcc attttcaagg ctgaaactgt attattcttg 360
 gctaaatgga atccttggtt tagtgacact gtaagagtag aaattaaaga cactgaaaat 420
 cttcccttgg ggaaccacaa ttatctgtga acaatgaaag tttgtctgaa taattcatca 480
 gcctcaaggg tacaggcctc cccttattct ggaatcccag gagtttaggc aagtgtgtca 540
 tttaatgggt ctcaactgtg tcctcagttg ttattattcc agggcctggc atttatgggc 600
 acattcctat aattttacta attaaaaaaa aataagctat atgggaaacc actgtcaagg 660
 tcaaaatatt gaagctgcat tgattttacc taggaagaaa gaagcttata aagtgtccat 720
 catgagaatc cacctgggac ctacacaaca gatcaaatac ccagaacaaa tcaccacgtc 780
 agagcccccac agaattctga ttcccaacca acaagcatga gtaatccttt taaatgggtca 840
 cttacatatc agaacagggtc ctttgtgaaa tttctaagca aggcctctgg tttctgactg 900
 aaacagagat ttattgagaa ggaggggtaa agtgaaatca agaactgctg ggaaatttcc 960
 acaagaaaca aggacaaatg gtttttggtg tcagagtaaa accagcctcc cctagccatg 1020
 gtttggaag ttatttgcta gcccacaggg gacaatattc tcaactgggt tatcagggac 1080
 ctttttgatc caattatagt tattgggcag atacagtccg taccctatta tcagragacc 1140
 tagtttcaaw tcctgagtc accttytaa ttcactgtgt gaccctggta caagtcaact 1200
 aagctctctg attcattggg tcaacatctt taatatgnng agagtaatgc ctatccccat 1260
 accncataaa nttttgcaag gttcaagtgg gttgaaangt tcaaattttt ccnaattttt 1320
 agatcccgga aag 1333

<210> 1788
 <211> 550
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c

<400> 1788
 taatattaag aaattcaata taactacatt tntataccgg ttaatgttcc acagtgtgtg 60
 ttaaaatgta gttataacta wtttttaattc caagggtgttg tttgcttttw ctttttaaata 120
 ttttyctaata ttttgtcaga ttaactagat gaataaataa atctagtatt aaccgcatta 180
 tgaattaaat aatttttgatt taatgaaagg gataatatga tttccagtgt ttactgtagt 240
 gtatcttgta cagataacat gtattttttaa agggaaaaaa acggaattga agctattttt 300

1119

```
tcttgcattt ctaattgacc tgagggacat tccgtttgaa atgtactgaa gttacagttt 360
ctgggttttt ctccttattt ttcttataat gcttgaaatg tctaactatt aaaaaagaca 420
attggaaaaat gttatgcatg gggtttttaa gaaaacaaag tgttcttttt atttgactga 480
caattcattt tacactctat ataataaaat ctccacaagg catcttgtgg gcaaagtcaa 540
aaaaaaaaaa 550
```

<210> 1789

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<400> 1789

```
tcgtgggctt cccagcatac ctgagaatag naatctgnca gaatattttg tggtctgtgga 60
tgtaacaac atgttgcac tgtagccag tatgtctgtac gaacgccgga tactcatcat 120
ttgcagcaaa ctcagcactc tgactgectg catccaagg tctgcggcga tgctctaccc 180
catgtactgg cagcacgtgt acatccccgt gctgcgcgcg catctgmtgg actactgctg 240
tgctcccatg ccctacctca taggaatcca ttttaagttta atggagaaaag tcagaaacat 300
ggccctggat gatgtcgtga tcctgaatgt ggacaccaac accctggaaa ccccttcga 360
tgacctncag agcctcccaa acgacgtgga agagagcacc gtgatccagt gagccttgcc 420
cctaagcgtg tgtgtatgat ttgcnaccga tcgaggattt atgggagttt atgggacttt 480
attta 485
```

<210> 1790

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

1120

<220>
 <221> misc feature
 <222> (496)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (520)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<400> 1790
 gcctacgcgt cgcgccacgc gtccggtgga acagtttctg ccagataatc ctgtttgggg 60
 gtttaggaagg ctgatggcat gtgttttctg gactaacatt ttgcagccta tggaaatgta 120
 tgtgtgctat ttattcttat gaattgtgca atgactcaca agcctaagca gtgtcagtta 180
 cagctcaacc ttggtagaaa cccgtggtgt tttgyttttt tttttgatgc gggggaaaga 240
 ctgcattttg tgacgaattt attacctaac agaaagatct attttctcag tgataggcat 300
 cacacaagggt gtctcctgtg acaaccctca gattaggaga aaaaaagcac atgtctgcta 360
 gaagacaagc tatgtgtgtg tgttgtttaa aattctattc tgcaagggtg gatctgctgc 420
 tggaagtgtg ggttggcttc caaganggaa tattaaaaat ttggaccaa tgcctccttg 480
 aaaactaggc atattnttac ttggaacaat ttattttggn aaacattttc cccaatnttg 540
 gnttttataaa ccagcccaac ctttt 565

<210> 1791
 <211> 914
 <212> DNA
 <213> Homo sapiens

<400> 1791
 agaagttgta catattcaga gttttccatt ggcagtgcc aatttctagcc aatagacttg 60
 tctgatcata acattgtaag cctgtagctt gccagctgc tgcctgggcc ccattctgc 120
 tccctcgagg ttgctgggac aagctgctgc actgtctcag ttctgcttga atacctccat 180
 cgatggggaa ctcaacttct ttggaaaaat tcttatgtca agctgaaatt ctctaattat 240
 ttctcatcac ttccccagga gcagccagaa gacaggcagt agttttaatt tcaggaaacag 300
 gtgatccact ctgtaaaaca gcaggtaaat ttcactcaac cccatgtggg aattgatcta 360
 tatctctact tccagggacc atttgccctt cccaaatccc tccaggccag aactgactgg 420
 agcaggcatg gccaccagg cttcaggagt aggggaagcc tggagccca ctccagccct 480
 gggacaactt gagaattccc cctgaggcca gttctgtcat ggatgctgtc ctgagaataa 540
 cttgctgtcc cgggtgtcac tgcctccatc tcccagccca ccagccctct gccacctca 600
 catgcctccc catggattgg ggctcccag gccccccacc ttatgtcaac ctgcacttct 660
 tgttcaaaaa tcaggaaaag aaaagatttg aagaccccaa gtcttgtcaa taacttgctg 720

1121

```

tgtggaagca gcgggggaag acctagaacc ctttccccag cacttggttt tccaacatga 780
tatattatgag taattttattt tgatatgtac atctcttatt ttcttacatt atttatgccc 840
ccaaattata tttatgtatg taagtgaggt ttgttttgta tattaaaatg gagtttggtt 900
gtaaaaaaaa aaaa 914

```

<210> 1792

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<400> 1792

```

ttggagctgg ggtgtaactg gaggggcggg cccttctcca agttagagtt ggggttctga 60
gcgagtcgtg cgttttaggt ttagtgtctt ttccttgtec ctgctcgggg agcgtgaggc 120
agatcggccg gctttgctcc aggcctcagg agtgtcastc gcctnggctt gcacagtaca 180
ttggaacgtg cgggttctat tttgtattcg acgtgccgga tcgaaataga gctcgcggca 240
ctntgaagac cacagtagga agttaaggac gggggtgcag gttcgcagcc ctatcaacca 300
gctccgagcc 310

```

<210> 1793

<211> 1054

<212> DNA

<213> Homo sapiens

<400> 1793

```

aaatttttgt atagacattc ctttggttgg aagaatattt ataggcaata cagtcaaagt 60
ttcaaaatag catcacacaa aacatgttta taaatgaaca ggatgtaatg tacatagatg 120
acattaagaa aatttgtatg aaataattta gtcacatga aatatttagt tgtcatataa 180
aaaccactg tttgagaatg atgctactct gatctaata atgtgaacrt gtagatgttt 240
tgtgtgtatt tttttaaatg aaaactcaaa ataagacaag taatttggtt ataaatattt 300
ttaagataa ctcagcatgt ttgtaaagca ggatacattt tactaaaagg ttcattgggtt 360
ccaatcacag ctcataggta gagcaaagaa aggggtggatg gattgaaaag attagcctct 420
gtctcgggtg caggttccca cctcgcaagc aattggaaac aaaacttttg gggagtttta 480
ttttgcatta ggggtgtgtt tatgttaagc aaaacatact ttagaagcaa atgaaaaagg 540
caattgaaaa tcccagctat ttcacctaga tggaaatagc accctgagca gaactttgtg 600
atgcttcatt ctgtggaatt ttgtgcttrc tactgtatag tgcattgtgtg gtaggttact 660
ctaactgggt ttgtcgacgt aaacatttta agtggtatat tttttataaa aatgtttatt 720
tttaatgata tgagaaaaat tttgttaggc caaaaaaca ctgcactgtg aacatttttag 780
aaaaggatg tcagactggg attaatgaca gcatgatttt caatgactgt aaattgcgat 840
aaggaaatgt actgattgcc aatacacccc accctcatta catcatcagg acttgaagcc 900
aagggttaac ccagcaagct acaaagaggg tgtgtcacac tgaaactcaa tagttgagtt 960
tggctgttgt tgcaggaaaa tgattataac taaaagctct ctgatagtgc agagacttac 1020

```

1122

cagaagacac aaggaattgg tactgaagag ctat

1054

<210> 1794

<211> 797

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<400> 1794

```
ctggaaacta gtgggtcccc cgggcctgac aggaattcgg acagnaggga aaaatTTTgt 60
taggccacaa aaacactgca ctgtgaacat tttagaaaag gtatgtcaga ctgggattaa 120
tgacagcatg attttcaatg actgtaaatt gcgataagga aatgtactga ttgccaatac 180
acccacacct cattacatca tcaggacttg aagccaaggg ttaaccagc aagctacaaa 240
gaggggtgtgt cacttgaaa ctcaatagtt gagtttggct gttgttgag gaaaatgatt 300
ataactaaaa gctctctgat agtgcagaga cttaccagaa gacacaagga attgtactga 360
agagctatta caatccaaat attgccgttt cataaatgta ataagtaata ctaattcaca 420
gagtattgta aatggtggat gacaaaagaa aatctgtctt gtggaaagaa agaactgtct 480
ctaccagggt caagagcatg aacgcatcaa tagaaagaac tcgggggaaac atcccatcaa 540
caggactaca cacttgata tacattcttg agaacactgc aatgtgaaaa tcacgtttgc 600
tatttataaaa cttgtcctta gattaatgtg tctggacaga ttgtgggagt aagtgattct 660
tctaagaatt agatacttgt cactgcctat acctgcagct gaactgaatg gtacttcgta 720
tgттаатagt tgttctgata aatcatgcaa ttaartaaa gtgatgcaac atcttgtaaa 780
aaaaaaaaaa aaaaaaa 797
```

<210> 1795

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<400> 1795

```
acctttacct tctgtagtgc cctaattctag ggtctgtgac tagaaacca ggtcaattga 60
tgaaaaatcca tgggagaaga aaatgtaaaa atgctttcag acattagggtg tatgaaatca 120
```

1123

```

cacaatataa aagctatatc atattttrtt agaggggattt ttttgctacc tttgctagta 180
cttgacagat ttatataaat gttnaataaa atttgggnct gagaaattgt ttccccccct 240
tttttttccc tgataaatgt ctctccaaca agcattgttg ctttaaattt agcactgtct 300
tcagcttttt attgctgatt cagtttctgt ggaaaggcct ttggaaagggt aagttctggg 360
cagg                                           364

```

<210> 1796

<211> 1267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1226)

<223> n equals a,t,g, or c

<400> 1796

```

gacgcgtggg atttcaaagc tgggggagatt tcatttatTT ccaaaatttt tcaaaaaact 60
tttactcagt tctgctgwtA tttaataact taagagtgtc cccatcccca tatTTtagct 120
ataggaaaat tgtgctaccc ctgattcata tggaaataaa aaaaaaatac atccctttat 180
tttgagtTTT aagtTgttat tttgctatac atttattact ggagtatctg gtggTctgaa 240
atagtcaaaa gtagagTtgg tattaatatgt tccaatgaca tttattTTta atacttaaaa 300
aatcatgtac tttgaaatat gtcaaagcaa cttctgataa tatacctgaa tttgtagTtg 360
tctcttgagc atcatttact tcatcttaga tatagtgaag atctaggaaa gctctatatg 420
ctgttctTTT ctacagTtgt atTTTtgag catctcctgg tttcattcac tcttgTTTTg 480
ggattTTtgTt tttagatctg catatttctt gtacatatgc atgcaaatga aagaagggag 540
tttgTactgg tgccmTTTct cccttcagtt gctggTtaak ggggattTgc tagaaaaaat 600
tctcccgttg aagggtgaaa acagaccctt atgtgtatay ctgtacagag atgtgtatat 660
gggatgtggT ggcactTTtg tgaatgtgaa cttgcctTgt caatggaaag attgaaaagt 720
attatgtTTa ttataacatt tgtataaatc tatatataca cgtatgtata tgtgtgtgta 780
tagataaagc tatatacata tatttccctt aaaaatgtgt gtgtataata ggtaaacagc 840
ctttgtTaaG caagattaat gtctatggaa agTtctggat tattctgtaa gccagaggag 900
gtgacagtct agagtacatc atcagaacat actaaaatgg aagtcctTTg gattatagtt 960
ttgtTTtatgg atattacaca atgaatgctt gtctgaacag ttcttacttg ccagttccac 1020
tattcttcat cttcaccacc ttctactggT cagtctttca tcacttaaaa aaaaaaatc 1080
acacatcatt gtggTTTTTT tccccctTaa ttctgtctct tctagccaga agcatctggc 1140
ttaagcatat ttcatcaact tctctgttat ttctTTTaaa ggatctTTat ctctgaaatt 1200
ttcccagaag gatacaagtt ttgggnaata ttatcaatag gaattTTgag gacttggggg 1260
attcatc                                           1267

```

<210> 1797

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 1797

1124

```
ggtcttagat tcagatagga gattcttctt aagatgctcc gtgttttttg ttttttgttt 60
ttctgtagaa gcaagagcag tctgtgatag aattatggca gcaagttctt aaccctttcc 120
agattaccaa actctgagaa tctgacatag cctgagagtc ttttctctcc cttgaaaata 180
gccattaatt cagtgactgt ttggagctgt gaggaaaaaa aaaaaaaaga aaatagccat 240
tagctcatgt gtacacaatt caaggtacaa tatccagagc ttagaggggc cattttgggc 300
tctagattaa ggacttctac tacagaatat tggaaataaa tgtcaatgga ctgcttaaat 360
aaattatagt acatccataa caatgggagt attgtgtgat aattaaaagg gagggagacc 420
tattatcccc tactttggac caacctcaa gatattatta ngg 463
```

<210> 1798

<211> 891

<212> DNA

<213> Homo sapiens

<400> 1798

```
cacttcttgg ctaaattatt atatcaaata tattcaaatc atattcttaa actcatcgag 60
ccatttgaac aaaaattatt tttgttttagc ttcattgagta tctttggaaa ataatttggt 120
gaatatatat gattatgaga tattttctga taaacactga attttgaaac ctgaaactcac 180
tatataattg cagtgttttg aaggcctgca tccattagca ttgcattata ttcacactgc 240
cttttttagt gaaccaagac ccatcttctg gacgacagat ttatcttaag atgaaagggt 300
gtataacatg cccacaaggc ataaaaatgt taatgatgca agtaagttct aagagtttaa 360
tgaccaagca aaactctacc accagatgct gactgcttgt tttgcagtgt tcaggaaaca 420
ccattttcct ggctcttaac gcttttgtat tggatggaa aagggtggc agctatagaa 480
caggagatcc atagcatttt gaacagaagt atctggaatc tcaactgactc gtgtgttatc 540
aaagctatat caggcctggg tgactgaatt cttgcagaaa gcagtgtagt ggccaccatc 600
caaatcacca aatgggttct atgggagaaa ggaatgtcaa acttagtatt cacatatgaa 660
cactaactac tggaacagaa atgatagggc caagagatgc tttttaaatt gtcccttatt 720
ctaaattaaa aggaagtgat aattttgttg ttaaactcatg catatagcct gactgctata 780
ttgcttctca tttcattgta actacttata tgttgtgccc attgactatc atctgtgaat 840
aaagaaagac aatattttagc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 891
```

<210> 1799

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

1125

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 1799
accctatcag acgtgggctg tcccatcaa aatatctgta cttcttgctt ctgccctaca 60
ttggaagcag cagaaaagaa gggtaagcag ggttctagaa atttgtgtta tgttttctcc 120
ccactgtatt tttttctttg gwtagtgggt caagaaattc tgttttctctg tagcaaatta 180
ataaagcggt caaacataag gaattacgac aacagcttgt agatgccaga cttcaacaaa 240
cagcacagct gataaaagaa gctgatgaaa gacatcagag agagagagag tttgkaagtt 300
ctacttcttg gaaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac 360
nccgtgcatg ccgacgtcan aagctcttct ataggggnac ctaaaatcaa ttcactgggc 420
cgcgntttac aacg 434

<210> 1800
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<400> 1800
ctgttctgat atgctatccc ttttcatag ttaaatttaa aaccaaggaa ataaagtcct 60
gtattagttt ttttcttcct tgaatatcat gattatagaa atctttgctg atgtggacct 120
aaataagctt gttgttgaga cttccaragt tctgtcctgg gtagtttaaa agtctcaatt 180
ggccaaaact ttaatgaggt tttagtaaat ctttaatacag aggaaggga atttcaaaaag 240
tatttacttc ttcactgaaa ggtgttgggt caaattcttc atctccatgc ttttttgag 300
tttctcatta ctctttaact catcaaaaaa ttcattcttt taaatgcctt ttngtcctca 360
gctaagtaac aagcatactg cagaaatttn gttgaataaa ttaatgtgtg atttctttta 420
ggatggaaga gtgtagaaag tgggcccaa 449

<210> 1801
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>

1126

<221> misc feature
 <222> (619)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (655)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (658)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (668)
 <223> n equals a,t,g, or c

<400> 1801
 ggnaaatata attacattac tattttaacac ctagcaaagc tattgtaggg tgtttccttt 60
 tccactcaaa tatacacagc taggctaaaa aaagagattc catttttggc tggcaagatg 120
 tttgggcatac agtaatatcc ccatatcata cattgttata atgtccctga tagtatttaa 180
 agaaaggaat tgatattagc tagtgattac taaacagcac aattctgtaa ctaaagggra 240
 aagaaactca ctaccattta gtatgtctaca accttagcag ccttgtcaaa aatcaattct 300
 attatttttg cagtatagtg gtatctattc aattttgaga aactataact gcttcacaaa 360
 cacttacatc aagctaatac gtatttgagc catccataaa cagactatgt agaaaagcca 420
 aacatctcat tagctacttt ggagttctcc ccttattttt aataaatgtc tgtcattaat 480
 gacgtcacta ctgaagacca tgaaaaaagt atatagttga cccttgaaca acatgggttt 540
 gaactgcaca ggtctactta tacacagatt ttttttttaa ccaaatgcag atcaaaaata 600
 cagtactgac aagatgcang aaccykggt ttatgtgaaa tctctgtata ccaanaang 660
 gcccgacntt tttttcttat tattaattgg gggtt 695

<210> 1802
 <211> 910
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (29)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (40)
 <223> n equals a,t,g, or c

<400> 1802
 gctttctcca gctctgagga caataagcgt ggaaagcgtn tccgcacaaa ttccagaagc 60
 actcccacta cccctcaagg gaaaccagag actacttttt tggaccaagg ctgctcttct 120

1127

```
ccagtgttaa  tcgactgtcc  ccacccaaac  tgcaacaaaa  agtacaagca  cattaacggc  180
ctgaggtacc  accaggctca  tgcacactta  gaccagaaaa  acaagctgga  gttcgagcct  240
gacagtgagg  acaagatctc  ggactgtgag  gaaggattga  gtaatgtggc  acttgaatgc  300
agtgaGCCaa  gcacaagtgt  atctgcttat  gaccagttga  aggcaccggc  atyccctggg  360
gctggaaacc  cacctgggac  cccaaaggga  aagagagagc  tgatgagcaa  tggcccagggt  420
tccattattg  gtgctaaass  tgggaagaat  tctggcaaaa  agaagggcct  taacaatgaa  480
ctgaacaacc  ttccagtaat  ctccaacatg  acggctgcgt  tagacagttg  ctcggcagca  540
gacggcagtt  tggctgctga  gatgcctaaa  ctggaagcag  aaggattaat  tgacaagaaa  600
aathtagtag  ataaagaaaa  gggcaaaaaa  gctaacaact  gcaaaacgga  caaaaacctc  660
tctaaactga  aaagtgcctg  gcccatgtcc  cctgccccag  cccccactcc  cccgcagcta  720
atcgctatac  ccaactgcaac  ctttacaacg  accaccactg  ggacaatacc  cggactgccc  780
tccctcacia  caactgttgt  tcaggctaca  ccaaagagtc  ctccgttaaa  acccattcaa  840
ccaaagccca  caattatggg  agagcccatc  accgtgaacc  cagctctggg  gtcactcaaa  900
gacaaaaaga                                     910
```

<210> 1803

<211> 540

<212> DNA

<213> Homo sapiens

<400> 1803

```
catttactct  gtgtgagctc  agcagaattg  aattccaact  tggatatagg  tgtccatggg  60
gttctactta  ccctgggttc  cgccttcttc  cttgcctggg  ggccctttcat  gacatcataa  120
ttttgatctt  cctttgttgg  atactctgat  cttgttcaca  gagaaacata  agcctaaata  180
tatgggtgggt  attttttgtg  ttgtggcaga  ctctaaatac  tgagtctact  cagcgttatt  240
ttgcaactag  agtggaggaa  tcctaaagtg  ttaaaagggc  tttgaagatt  gagtcagcat  300
ccttatcata  cagtgcagaa  gtctgaatta  cagagattat  gcagtgtatc  gtgggtcaacc  360
agtaaatttg  ttgtccgtaa  agtacgggtg  agaaatctga  gattacagag  attatgcagt  420
gtatcatggk  caaccagtac  attttttgtc  gttaacatcc  agagccactg  acagggaggg  480
tgaaaggcac  agagtgaatt  tttttgttcc  ttggggcttt  atcaagtttt  gaagggatag  540
```

<210> 1804

<211> 231

<212> DNA

<213> Homo sapiens

<400> 1804

```
cccaacccgg  cactcacagc  cccgcagcgc  atccccgtcg  ccgcccagcc  tcccgacccc  60
ccatcgccgg  agctgcgccg  agagccccag  ggaggtgcca  tgcgggacggg  tgtgtggtgg  120
tccacgtatg  gatcctggcc  ggctcttggt  gcggtggccg  ggcgccccct  cgccttctcg  180
gacgcggggc  cccacgtgca  ctacggctgg  ggcgacccca  tccgcctgcg  c 231
```

<210> 1805

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

1128

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<400> 1805

```
cggacggtgg gtgagagatc tgggtggggag ctgatgttcc agtttgaggg ccctgcagct 60
ggagaccctgt ggggatctga tgttccagtt tgaggggtggt gcnatggtga cccaggcggg 120
agctgrtggt ctagttktag ggccctacag ctggagaccc ggggargagc tgacgttccc 180
wttcgagggc tgtgcagggtg gagacctggg gaggatctga tgttggttcta atttragtgt 240
ggtgcagctg gagatccagg gatgagatgg ccctgcrgtt caaatatgag ggtcccggag 300
ctggactcta cgtgaggaac caatgctgcc tctgatgtct taggttgttg agctggaaac 360
tcgcgaggga actggtattg gngttcta 388
```

<210> 1806

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 1806

```
aggcagaagg ccacgagaga gagaggagcg nggagagtgg tgaggaggat tcgtctctra 60
ctgatgaacc tcgccgtgcc tgtctgtcac atccaagtct gtgccagctg ctgggagggtc 120
agastcctgc cctgagaaac agcccagtcc ttggagaatg aaaccctgag ggtcagtgag 180
tggaggccctt ccctcggggc cagccattcc cgggargcct gagttgtgac ctggaagctc 240
trtgggtcmc caaractggc attttccttg ttatttttgt tgca 284
```

<210> 1807

<211> 334

<212> DNA

<213> Homo sapiens

<400> 1807

```
gtgagccact gtgtccagca gaaatgtact ttctagaaag aaaataattg gtacttcact 60
actttcccag ggaattcctt caggtgaatg tccacccttt tgatctagaa gcagactcac 120
aatTTTgttt gtttgGcaaa tcagcctctg agctcaactt ccttgtctgt aaaatggggc 180
taaggaaatg tgggttgctt tttcaaagggt tactgttagg atggaatgag atcatgtgtg 240
taacaaaggc tttggaaact ttctggaatt tgaaggctat ataaataaaa gatggaccac 300
tctttcctta aatttgGcac ctttcctgtt cttt 334
```

<210> 1808

<211> 921

<212> DNA

<213> Homo sapiens

<220>

1129

<221> misc feature
 <222> (486)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (812)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (845)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (876)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (888)
 <223> n equals a,t,g, or c

<400> 1808
 gttgtgctga agaatggcag agtacctgat ttatttagtc tcaaacaatt tcaactgcctg 60
 ctatgttcaa gacccggtag gtttaatgct ctgtagtagc tataatgtaa atgtaccatg 120
 aagaaatgct attttcttct acttattctt catttcaaac tattgtctta tactagtgtc 180
 aagcattatc tgtttgtgat ttgctgaaaa acaaattctt tgtcaaagaa aatacttccc 240
 ttaaaaatga gaaagcaatc ttaagtctca taaatctaata ccaggatcct tctatcataa 300
 acttaactgt cttgawtttt actgagatta gccmaaataca gagccaaaaa attccccctt 360
 gcactaattt gttaccctta cattgacatt aaagggtttgg catttaattc tccatcttga 420
 tcttgaacta aatttcctga agaactgtaa ttgttacaag ccttgccact caggcatgtc 480
 atgaanactc acttctgcca aaatagttat agctattaaa ttctctctgtg ataacttttt 540
 tgttttccta actctaaatt aagatttggc acacagtaag acaacacaat ctaacaaaaa 600
 agaatctgga tgtttagattt aaatagattt gaattttaa tcaaggctgtg ctgggttacca 660
 actaggttac tttaggcaaa ttatgcaatc tgtgtgatcc tcagtttcct cttctgtaaa 720
 gtgaggatgt tacctacttc atggcattat gtgaagattt aaagggatga ctttaaaaagc 780
 gcctattaat tgtctggcac ataaaatatt cnataagtgg tattattctt aaaaaatatt 840
 atgancctat tgcctttgtc tgtcttatac tctgantgat actaattnaa ctaccttatg 900
 gctgaagggc tgcttaatgc c 921

<210> 1809
 <211> 856
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (628)
 <223> n equals a,t,g, or c

1130

<220>
 <221> misc feature
 <222> (764)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (805)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (817)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (837)
 <223> n equals a,t,g, or c

<400> 1809
 aaggaagtgg gatactggct ggcattgtca gtgttctaag tttcaggcat ttttattttt 60
 cctgggctaaa cgttggtgaa agttataaacc tcctgcctgg gagaaaatat acatcaccta 120
 aaatgaactt atggcaggtc taatcaaaaag gctaaataca atttcagaaa aggttctgat 180
 actcttgttt ttgataaaagc attttttcaa ctaaccatga attaagatga gtccatttgc 240
 ctcttctgcc ttcactgagg gtttgggtta tacacctcta ctgaattgtg ttaataaactg 300
 tttggcagtg tgtactttgt ttttgtgagt catgtctcat gaaatttatt ggaatgttta 360
 atcatatttg ctaagaaatg tttctgctgt agttggattt gcccatattt atgtagggtg 420
 ttttaatttt ttaaagtgtg attagtgtta aaaatcaatt taaatcatga ctaatatggt 480
 aaaaagataa agcatcaaag cagtatttct cattcctgcc tcctcaatat ctaatactgg 540
 gaagatactt caaagaatat tgagattgtc tgaagtttta gttaagattt tcacacatta 600
 atatcaaaaa agtaagttta gtatttgntt ctccatgggt tatttgtaaa gctgtaaaact 660
 gagatatcgg tgactccgta ttatgactcc attagtggagc tgtgggatgg gtaggatttt 720
 ctacttcttc tgtactttta cctggagact atttttacta agngccttta taatgggggt 780
 taaagcattg catttaccaa acaanggaaa atgctgnaaa tattgcatat tttatgnatt 840
 tggaccaaaa gggtac 856

<210> 1810
 <211> 662
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (584)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (615)

1131

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (629)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (662)

<223> n equals a,t,g, or c

<400> 1810

```

tttaaaactat gaaatgagga atgtaatccc ttctataaga tgtatactct ttgttatttg 60
ttgttaaaatt ttggctcttg tattccaact gatgcaaaat tctttttaca aagcactgaa 120
ataatacaga tttttcttca ttgtcagcag gatgagattg tctgaaacga agaataaggta 180
tgatagtttt cttagatttt gcacatcata ggtggcaaag acactatcaa aacataagtt 240
tttaaatgta ctaggaagta ctttgtaaaa ccaaacgggc tgaagaaagt gacaggtaat 300
ttgtgagaat aaaactaaat tattggggta gtgtcttacc tctttgtata tttaaatggt 360
ctgtttttta acatgtaaaag gttattttta tttgtttag attgtgtag catgctataa 420
atgttagaaa gttcacttac aatctacttt aacttgaaga aagagagaaa tcgggtccaa 480
attgtatagc attgattgca acctagtgta gcctagtaga atttctgagt tttaaaattt 540
tttaaaataat caaaatgtat ttattgaat tcatatcctg gaantatata tgtatcttat 600
taaactctta aaatnattaa atgggcaant gattaatctt taagtccaat tgaaattggg 660
gn 662

```

<210> 1811

<211> 691

<212> DNA

<213> Homo sapiens

<400> 1811

```

tggaaaaagt attttaaaac cttcatcaat ggaaaagtgg tttgggggttc ctggtttgac 60
cacgtgaaag gatggtggga gatgaaagac agacaccaga ttctcttcct cttctatgag 120
gacataaaga gggacccaaa gcatgaaatt cggaagggtga tgcagttcat gggaaagaag 180
gtggatgaaa cagtgctaga taaaattgtc caggagacgt catttgagaa aatgaaagaa 240
aatcccatga caaatcgttc tacagtttcc aaatctatct tggaccagtc aatttctctc 300
ttcatgagaa aaggaactgt gggggattgg aaaaaccact tcaactgttg ccagaatgag 360
aggtttgatg aaatctatag aagaaagatg gaaggaacct ccataaactt ctgcatggaa 420
ctctgagcaa gatgtaaata aaattaaaag gtggatggca agagtgcaaa tactatcttc 480
aatccttcag tccagccag aagaatctct gaaagcatat tgtgaatgta tacaatgtag 540
tacaacaat ctctgtgatg attaacagta tgtcaccact tcatttttta aaaaggatca 600
cgtctaatagc ccattttccc aactattctt tccaaagtaa gatataaggt agcttaataa 660
actaagtaaa acgtaaaaaa aaaaaaaaaa a 691

```

<210> 1812

<211> 615

<212> DNA

<213> Homo sapiens

<220>

1132

<221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (87)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (88)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (578)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (583)
 <223> n equals a,t,g, or c

<400> 1812
 tgggaanaat ctcaactcact attttggcaa agctggtagc cctgcaggta ccggtccgga 60
 attccccgggt cgacccattc gtccgcnnca gcctctctaa gtaggaggcc ccagtgggag 120
 agatgggctt tgactctggg gtcaaatgta gataattgga ctatggacag tggctggctg 180
 gtcaccaaca atgggtgtttg aaacaaacat ttagaggcca tatttgggct tataaaaaata 240
 gttctggggcc gtgcatgggtg gctcacacct gcaatcccag cactttggga ggctgaggac 300
 agcggatttc ttgagctcag gagttgggag accagcctgg gcaacatggg gatacctgtc 360
 tgtctcttta aaataaaaaa aatcaatgaa gttatgtgat gggctcatgg ctacaggtgg 420
 agaaaggcag tgcataatgca gcctcctcca tccttgacta aggctgacag agggctgggc 480
 ccaccaytgc tcaccctgag gcctcgtctt ctgactcccc tcctttcatt tctaggtggc 540
 attgggtgarg ctgtgtccaa gagcagtaag tggccaancc tgnccattact gttacccacc 600
 tggcagttaa cccgg 615

<210> 1813
 <211> 1205
 <212> DNA
 <213> Homo sapiens

<400> 1813
 atttatttgg ctcttgggag ctccactga aagtgcagaa atgtcgtact gacacttcag 60
 acttatagct acctagactc caagtaagat ttatctctga ctggaggggt tctcctatta 120
 aaaaccaaag agtgtagggg gccttcacct gctaggtaat cttctatgcc ctaatgggaa 180
 gaatgggagc agcagacaag taagtgcagg aaggagaacc aaagctgtgt ccatgccctt 240
 gaggaagag aaattggacc agacaagttc agtggaaact ttctaattgga tccatcaact 300
 tcatcttgtc taagcagagt catagctaga atgtgactga aataggagaa ccacgtccag 360
 gggtcagggg ggattcctct gaaatcgag ctggaacatt tcgtaatagt tctggtactg 420
 caccataga tactgtcacc tctactcttt cttccaatca ccattagcag atgccacag 480

1133

```

attcctactt ctgaaagttt ttgggccccg cagtggcaag accggagaag ccaataaagt 540
ttaaggctac atgtttatcc catccacaaa ttgggtgaag gaggaaatgt ttacaattct 600
gccatgccat gaataggagt ttccaccgg gtgtacactg ctgttaacaa ggtgtaaata 660
cttgccagt aaagagaccg tacgtactgc tgatgggacg tcccaacaca atgccagatg 720
caaaaacttc ttgggtgatt gcttttgata acactgagtg gctaaaggtc ttctttcaca 780
tctttgccc cctywaatcc tgaaggcaag gtctctggaa ttgagctgt gccctcacat 840
gcctccaagg caccaacaaa gcaaaatgaa gagtctgcac tgcttatcag ttgacccaac 900
actcagtcca cattggaggg gaaggggtgg tgggctgagg atgtcttctt cctgtccagg 960
atgcaatatg gtcaaggatg aaaggaaaga gatgctggga gcaagtctgc attgaagatg 1020
tatttctgtt gctttactac caaccctggg tataaatgat gaaactataa tgggtctgta 1080
atagctactt tcccatatag ctcttgtctg tacatacata aaattaaaaa waatagaaya 1140
cttcattac taacatgtgg tgacaagcat tcttcattta ccatttttat tccaaaaaca 1200
tgatt 1205

```

<210> 1814

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 1814

```

gcggaacgcgt gggcggtctgc gtggcttttag acaagtcttt taaccttgct gtgcttctga 60
tttctcagct gaaaaaatgga gatgatgata atggtttctg taaggcctta tgggtgaagca 120
cctagctcag ggcctggaag gcagggtgtaa ccagtggttc agttgttata aacgaacact 180
aaccctcgcc ttgtcacctc atgaatccag atatgtagat ggagsgccaca aagctagcag 240
gagccaagct cagctgtgtc ctgctttaaa gccccatacc cctttctccg ggtgacaaac 300
acctgtgtctc gttctcttcc cttcccctct tccccttgca tttggctaataaacaggccag 360

```

1134

```
ctgcctgcct cctgcagtt tggtagatgg gtgggtaatg accaccactc cccacgttcg 420
cctgatgggc ttgttttccg tgcccttcac aggcactctgc aacaggcccc agccaggcct 480
gaagtcattc tcagaaggga tggatcctga ggtcgccatg cccagctggg caaacatgag 540
tctggattct tncgccgagt cggctncctt ggctgtgang ctgganggag atgaactgnt 600
```

<210> 1815

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<400> 1815

```
aaaatgatat actactattg cttgtatatt gtgggtatacg gtgtcagggt tcagggtttt 60
ttttcaacgt taaatattct agaaactttc tgaaataatt tctgttttaa aatattgaat 120
atttgcttca tttcaaatac tcccttttga caaaaaaact taggtataac tgttgatgaa 180
aaaccagaaa aaagtccaga actctttggg gactccaact atggatagct tattttgaaa 240
aaggagaatt gcaaatttta ccaaagatg gagaaaagca cattaataag ataccaacat 300
tcagaaattc atttcagcag ttattattgg aaatatatta actaatttag ataactataa 360
gatacttatt gtccatttat acccgtaaag ccgtttttaga agtaatatat taggtaatcc 420
aaaagtacta aataaatcat tttagttatg agaaatcttg cttatagaca aagaaaagaa 480
taacaagttg tcaatgaaaa gatgacatk gaaacatttg atgkcnctct taamctacct 540
attgactata ttaagccttt aatac 565
```

<210> 1816

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<400> 1816

```
ggtctgggga gggacctgaa actatagatt tctgacaagt ttccaggaaa tgctgatttt 60
actgttcagg gaccacactt tggaaaccac acaaatagga atctcatgca aacccaaggc 120
acctatcaaa aaatttttcaa ccaagtgatt ctgcatgaca agggccagca gtgctaggga 180
agaaacaaca ttctgttctt tggcccgta gcaatgacca ttgccagagc caaactgaga 240
aragtgggct gtctgttcaa ggaactgaaa tatataatct tancaa 286
```

<210> 1817

<211> 1320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1135

<222> (1304)

<223> n equals a,t,g, or c

<400> 1817

```

gacgggggttt caccatgtta gccaggctag tctcgaactc ctgacctcag gtgatccacc 60
cgctcccgcc tcccaaagtg ctgggattac aggtatcagc caccgtgcct ggcctaataa 120
ttggaacatt ttcacatga aaatgtcatc agctttgcca aaagaaacaa ccaattgact 180
tgtktggcgt ttgttttcca ttttcatgtc aatttttatgt atacagttag aatacccaag 240
gagaccacta aaatcagtta aacaagtagg gtatatacaa agaaagatga aacccgaaaag 300
tacataaaaa ggattttaa atccgatttttag atgtacctag tgtgtatttc ttatctctag 360
acaagttcat gtttattgtt taatttatgc ccaagtgaag ttgtaaactt atggttcaac 420
tctgacacag aatttgtcac ttgtctgagg tcagtggcag gtttctctgc tgtcaacact 480
ctgtgtcacc caccagatta gtataactat taattcagac tgtactccta tgtttaagat 540
aatttttaca agagctgggt gaagcagcac attagtaacc tgacaagatt tcttttityy 600
ttttcagggg gaaaggggtca ccttaaaaaat aaattatttt cagggaactt gggaatctaa 660
tgataaaatat tacacataat ctatgaatag cttaatcctt tatataattcc ttaaaatagg 720
aattcctcga catcactcct ggccacactt tccttgacctg tgttggtgct atgtgtattt 780
gaaagtaata tctgcattcc ttttaagatg ttctgtaagt catatttgct agttatacag 840
agtagtcttc cttttcccca cgttcagtg atctcactg aacagtaata atagcaatag 900
ctaacaacat ctgcacagca cttacagtt tgcaaagaac gttcacacat tctcatttga 960
gttttgcata gtgaacctgt tacgagatgt ctcttgacgt cgatgctaaa agtggttagaa 1020
tctttacatc actagagtca ttgaatatgc tgtagtattg aatagtgcc tgactagggg 1080
gaggatttgg atgtgctgca tttcaagccg tgtataatca tcaaaatggg gggcttgagt 1140
tcttttagcta cttgaatccg atttacttct gttaagtgat gcttttctaa ccgttttctg 1200
gatggatttt gtattcacta tattgtagct tgtaatttgt ataaatgtac catctgatgt 1260
cattaaaaaa agtgttttga gtgctaaaaa aaaaaaaaaa aaanaaaaaa aaaaaaaaaa 1320

```

<210> 1818

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (816)

<223> n equals a,t,g, or c

<400> 1818

```

acaagtcaaa atacagagat gatgtaagca ttgcatttcg tatgtagaga tggtaaaaga 60
tgactatgag gacgattccc atgttttccg gaaaccgcc aatgacatca catcccagct 120
ggagattaat tttggtaacc tccctcgtcc tgggcgtgga gccagaggag gcaccgggg 180
aggccgggga aggatcagga gggcagagaa ctatggacct agagcagaag tggatgatgca 240
agatgttgcc cccaaccag atgaccgga agatttcctt gcgctgtctt gaaagagccc 300
tgtttccag caccgaggag ctgcactgca cacctgtggg gagacttttc cagctgggcc 360
aaggagtgca gactctaaga acaatagatg ttgcttttcc cgtgtcatgt aaatttgttg 420
cacttttttg ggctgagctg ttagaggggc ttctccagag gctcgagagc aggccatttc 480
ccaagaagat gaagaatggg gactgtgttt ttattgaagg aatttcaa atgaagaataat 540
gtttaaaatg tgtatataga gatagtatag actcctccgc ggaagcatgg agggaaagga 600
ggttgtaaaa tagactccat ggagactcct aggaagcagt agattcccg gggctgtgcc 660
tttagcgta gaggaacac atagagctgg aactgtta atggaaagcagt cacagctgag 720
ttttcggaga ccaagaat aaataacaat tgcacttaca aaaaaaaaaa aaaaaaaaaa 780

```


1136

aactckaggg ggggcccgtg cccaatcgcc ttgtgntgca t

821

<210> 1819

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 1819

gctagtytct agatcgcgag cggccttaat gttatcgaag gagaaatgtg aaacttgagt 60
ttagggttac tgccgaagga agaccaaatt gaatgaaatc tggccttgga attggctgta 120
gattcttcct cctcgaattg ttactgaaaa ggagtcttaa aaattgaaaa tgtagcaga 180
gcattttgta gtgttacagg ctttgtaaat ttttcattgt agtacctgtt gctggcagag 240
taacttttca gaattgtaag atttgatata aacctgaatt caaggtaaaa tttagtcgtt 300
aaactgcacc tgacgagatt atgtccaanc aggctttata cgtattgcac tgtggaaact 360
tncaaatata 370

<210> 1820

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

1137

<400> 1820

```
ggaggagccc agcagagtc ctgggcagtc tgaccccttt aattgtggac taacttctcc 60
cagaacccat gataaggagt ttctctcctg attgaggata ccaagtgtgt gactgttagg 120
cagagcattg cagccccatt ttggtgttga tatggaaatt cctaggtcac tatgcagaca 180
agaaaaccag gaccccgagga gccagaaaaa cttgctgcaa gtctctagtt tgctcctatg 240
aatgcccctc caccctggaa gaagccctag acagtcctgt ccttcttttc ctgggtgcac 300
gtgtcccctg ntgctaggcc tggggcaatc ctgggggtgt ttggctggcc cttgggggct 360
gggcttnctc cctgccancc tgccacagnt gcactattct ct 402
```

<210> 1821

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<400> 1821

```
gattttattg ttacagtga gagagccaac tcacagattt agatgatttt aaagatgcag 60
ttcaaagtga ggaaggatgt aaatactgtt tttcaattag ngaattaaca gttgcaaaaag 120
tggtgttact catagagagc ttgtgatttc atgaaagcca tcaaagagta aacctcttgt 180
atagacagat tccttaattg ggtgtgctgt ctcacacgtg tgtgtgcaca tctgggtgtg 240
taatatatgt atgtgtacct cagtcctagg gctgtggtta caaagtacca caanctggct 300
taaaanagaa atgtattctc acaagtcggg aatcaagggt ttgacggg 348
```

<210> 1822

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

1138

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<400> 1822

```

aattcggcac gaggaaactt ccattgctct tcaggacaat tatgagatca gatatacagc 60
tatctctgtt ataaagaatc ttttgataaa acatgcattt gacacaagat accagcacia 120
gaaccaacaa gccaaaatag cacaattgta cctncccttt gttggactac ttttgaaaaa 180
tatacagcga ttagcagggtc gagatacctt gtattcttgt gcagccatgc ctaattctgc 240
atccagagat gagtttccat gtggctttac ttcacctgcc aatagaggga gtctgagcac 300
tgacaaagac accgcttatg ggtcttttca aaatggacat ggaattaaga gagaagattc 360
aagagggttcc ctcttcccag aaggagcaac aggatttcca gatcagggca acactgggtga 420
aaatacccga cagaattcta caaggantat tgtatcccan tataaccgcc tggatcagta 480
tgaaatcaca acctcctgat gttgctacct gt 512

```

<210> 1823

<211> 940

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 1823

```

tcttgattgt gataagcccc cctggaggat atgattcact ttatgtgatt catcttattc 60
acaggctctgt gagggactgc gaanttactc aggaaatgaa aacaaatgat ggatcatgttg 120
cagtttttttc cttgaaggac aaccgaacca tagcctctaa agttcaagtg cactgagggtg 180
tcggaacgct gaaagcatga ggaaacgagg acgtaggggtg tgactgaatg gtggctagat 240
tagtgggagc agttcacctg gatgaagatt gagagcatcg tctttgagaa gtgaaagact 300
agcaagaata aaataaatta agtccagtgt ttgagccaag gttgccacct gtctcttaac 360
atctcactga acataagtcc tgagggtatta ggacgaccat actgcctctg agctgaaaaac 420
attcaaaaagt tcacatccct gtttggggga taccattcac cgccttcagc ccagatgata 480
ctttccttta aatctgtgtc tctgtgtgta taacaaagag gaagatggaa acaatgttca 540
tggaactgct tgttgagccc cttgtcccac cactcccgcc atctgctgca ggcaggaagg 600
catgtgagtg tacgttttct tccaggagac atcagggtccc ccyggattca aattaagtgc 660
aatattttgc aaacagctct tcttagggaa atctcctgaa ggaaaaaaat gtgacagaat 720
gttccatagt ctgagagaat ggaatcgttg agcatttagt acaagtccag tgtgtgtgag 780
cgggacttag gcagctcaag cttgcttttt tttttaagcg tacaattgag tggtttttagt 840
aaattcacia acttgttcaa ccatcaccac tatctaattc cagactcacg ctttttttaa 900
caataaatgt catttcatga aaaaaaaaaa aaaaaaaat 940

```

<210> 1824

<211> 502

<212> DNA

<213> Homo sapiens

<220>

1139

<221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (73)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (163)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (309)
 <223> n equals a,t,g, or c

<400> 1824
 gtgctccacc gcggtgcgnc cgctctagaa ctagtggatc ccccgggcctt caggaattcg 60
 gcacgagcac ctncgcagcc ataccagga gaaagtggta gcctgccccca cctgtggggg 120
 catgtttgcc aacaatacca agttcttaga tcacatccgt cgncagacct cattggatca 180
 gcagcacttc cagtgttctc actgttccaa gagatttgcc acagagcggc tattgcggga 240
 ccacatgcgc aaccatgtga atcactataa gtgccctctg tgtgacatga cctgcccgcct 300
 gccttcctnc ctccgcaacc acatgcgctt tcgtcacagt gaggaccggc cctttaaatg 360
 tgastgttgt gactacagct gcaagaatct tatygacctc cagaagcacc tggataccca 420
 cagcgaggag ccagcctaca ggtgtgattt tgagaactgc acttcagtgc scgatccctt 480
 gctctatcaa gtcccattac cg 502

<210> 1825
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (38)
 <223> n equals a,t,g, or c

<400> 1825
 gagtgtgttc ctgtgggtgc ctcagctctt ctactttnaa tttaaccctt aaatatacag 60
 tagtgtggat ggaagctggg gaatgaactc ttgccaacag aagatttata gtcttatgaa 120
 tgagtaaaatt ctagatcttt ggaggttgat ttagaaagaa cgggtactgtt aaattctgag 180
 tgttttttgtt tcagtggggg ggagttagta atagcttttc cttgtccaat aggaagtggg 240
 taaattgccca aaccactgag atcactattg ttgactcaga ttcaggaata agattagcgt 300
 aggaaaagctg tcgagtaacc ctggaattgg ggctgggtgt gattctgttt gctcttggt 360
 ggtgaggagg ctatgagttg gtatagccag tggcccagg atcctgaatg tgttgctaaa 420
 ccataactg ctttccatgg gctgttttta ggggccagg ttggaggaga tatggtgttg 480
 ggtagcaact tgccctgtaa tagatggaga gctgttttct ccatggctcc tgcagtgtga 540
 gaggtgaggt gccagcttag agaaaattcc agatcctcgt tcatgattct taagcagatc 600

1140

cagattctta agcagatcca gattcttaag cagatatagc a

641

<210> 1826

<211> 447

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 1826

tctctccaggt	gactctctctn	tcttgccag	naatagcccc	cagacttttt	ttacccact	60
ggggtcaaag	tttcccatgg	accaaggaaa	gaancttgca	gcctttcttt	aaaagcttag	120
gccctggacc	ttggcaccag	catcactnct	cgctgtattc	tattcatcaa	aagcacttga	180
aaccaaccca	gatatgttca	atggggagca	tccatgtata	gccccaat	gagacaagct	240
actatccttt	aaaagacagg	acttgcaagt	gatgggaaag	aataaaaacc	cttccacagc	300
catgtctata	catattaatt	attattttca	tctctccccg	atatgtatat	gttagtttaa	360
trtggtgaat	aatataaaac	catttatttt	tttcaaaatt	gtagaattga	aagaaagggt	420
aataggaggc	catgctgaaa	aaaaaaa				447

<210> 1827

<211> 590

<212> DNA

<213> Homo sapiens

<400> 1827

tttttgaatc	ttccttaagt	ttataaatat	ttatTTTTTTa	aaagaagatg	ctgtgcctgt	60
gagaccatac	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	ttttgggtgac	tgcaaaggac	120
agagaacctt	tccacttttg	ccatactggg	ttgctaagcc	ggagccattt	cagctcctgg	180
ctcctcaaga	taacggcgag	tccagtgcc	tcttgagaga	gctccagggg	cagggctgac	240
ttttctccta	caggaggaac	aatgtgggga	tctgagggat	gggagggaga	cttcccccta	300
gagtgggtgt	cctgctgggg	gctcatatcc	agggacccaa	aaggggggct	gtgtaggagg	360
ttccacattg	gaggggctct	ctctctcgca	gctgtcagag	ttggtcctgg	ctgtggcgctc	420
caaacagctt	gagggaaaaa	gatcctgtct	aaccacctca	tctactactc	aagttcttttc	480

1141

tgaaggaggg atttcttcag ttaaccatgg acagtgaggt ttctcaccac agtaacttga 540
gtccagggtt aggggggagac agatctgtgg taaatctctg acttgggcag 590

<210> 1828

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 1828

ggnaattccc gggtcgaccc acgcgtccgc agaaatgtta caagagtaag aggttccttac 60
ttgtacatag gctttcctgc tgaaaacagg cccctgctgt acagattttg ggtacataat 120
ttagctcttt tagtcaatcc aagagattta agtgaccccc ccccccccggt gtttttttttg 180
tttttgtttt tgttttgaat gccatgtaaa ggcttttttg ttaagacctc acttttaaaa 240
ctgccttaag tataaatagt accttttgaa tayatttagt tcatcatttg agctgccttc 300
atactggttt cctcagcctt ccttcagcct gtaatatctt cagcccactg tttaccttgt 360
ctcaataaaaa ggtttctaat gccaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaa 425

<210> 1829

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1829

gtattacaaa tcttattgta cgcattttgt actagagaaa aacactgaag cagttgctca 60
aactttgttc aacatcaggg aattttatatt ggagaaaaat cctgcaaatg taatgaattt 120
ggaaaaacat tttttttcaa aaactacggc gtagaaaaca tgaatttata ttgaaatgtg 180
tttttgcaga tgcagtaagt atgaaaaata ttaaatccaa aattgagtct atgtaaatat 240
taaataattt acagtagaaa taactaaggc actgacactt tagacattac actaaaacag 300
agtgttgagt ataaaaaaat ctataagtgt ttagattatt tgtaaaataac tttaaaagga 360
gtagaagatt cctttgggag ag 382

<210> 1830

<211> 832

<212> DNA

<213> Homo sapiens

<400> 1830

cagggctggt gcacaaatat ggccaattca aggagaaaca gggcagataa tcccacagag 60
ccggtgacac gccatccta ttcttgagta gacagagcca tttccatcac tctcaggcct 120
ctgtgggtaa ttggagctga caagggtccca tgcatagcag atgagattag tcccagctgg 180
acgtttccca gaaatggtcc tggggtttcc agtaacctct caratrarat cacttgtcta 240
gagatcactc tggaatatgt ctcatataag gcaaggagtc atggaaactg aatcatgttg 300
agagaggatg ttgtaggaat agaagcttct ggacaaagaa tgaggaagac tctggagatc 360
tagagagtgg ggatttgtga gtggtttcag gttttgtttt tgtttttctt ctcttggcac 420
ccccaagcac taggcttatt tgctggacag aaatagatct taagtggaga ctgcaagttc 480

1142

```

ttccgacgtg atgcactgga ggagatgcat gcctggaaaa gctctgccac ttgctggctg 540
ggtggcctgg gaacctctgg gtctcaggct cctcatccat aaaatgggga taataactaa 600
ttctcattaa ataagaaaca caagattgat ttgtggtaag ctttaataagt aacaactact 660
cgagaaaata gcctttttaa gaactgacaa ccattgctaa gtgtctaccc taaaaaaga 720
aataccagag atataagaaa aggtatacgt gcaaaaaaaa gttcattgtk taatggaaaa 780
tattagaaat atattcaaca aagggaatgt tcagtacccc ctccccacca aa 832

```

<210> 1831

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<400> 1831

```

nttcggcaca ggcgaaatca gccatggctt tacttagttc ccaagtacac atcttcttat 60
ccacaaggat gaaactctgt agggctcacc ctgagggtc atgtgtggca ttgagagggt 120
agcagtgacc agaacaccac aaggcccaca agatgttttg aatgagggaa catttaattgt 180
catttgtag gagatagaaa ccaaataata aaggacaagg accacgctca ttccgtggag 240
aagaggtgaa ctccctctgc tgactatttg gaatggactg aatgaggagg tctctccagc 300
cagaaggagt attgagggtca tcaggcctca gaaaacaatg tacacataat ctcgggctgt 360
gaacaagaga aaggagggggg ggaaacatga aagtcaatct taacaatttt tgcaatacct 420
cttatttgca gaccattgga tttatgttat tgcactctcg gtgtgattta tcgtatgtat 480
ctgatagggt ttatgaattg ttttgagttg taaactccta taccctttat taaaatggac 540
ctaattaagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gtcgtatcga 590

```

<210> 1832

<211> 3266

<212> DNA

<213> Homo sapiens

<400> 1832

```

ggaccagcta agggagggcaa gaagaagaag gatcctaattg ctcccaaaaag gccaccgtct 60
ggattcttcc tgttctgttc agaattccgc cccaagatca aatccacaaa ccccggcctc 120
tctattggag acgtggcaaaa aaagctgggt gagatgtgga ataattttaa tgacagtga 180
aagcagcctt acatcactaa ggcgggcaaag ctgaaggaga agtatgagaa ggatgttgct 240
gactataagt cgaaaaggaaa gtttgatggt gcaaaagggtc ctgctaaaagt tgcccggaaa 300
aagggtggaag aggaagatga agaagaggag gaggaagaag aggaggagga ggaggaggag 360
gatgaataaaa gaaactgttt atctgtctcc ttgtgaatac ttagagtagg ggagcgccgt 420
aattgacaca tctcttattt gagaagtgtc tgttgccctc attaggttta attacaaaat 480
ttgatcacga tcatattgta gtctctcaaa gtgctctaga aattgtcagt gggtttacatg 540
aagtggccat ggtgtgtctg agcacctga aactgtatca aagttgtaca tatttccaaa 600
cattttttaa atgaaaaggc actctcgtgt tctcctcact ctgtgcactt tgctgttggt 660
gtgacaaggc attttaaagat gtttctggca ttttcttttt atttgtaagg tgggtggaac 720
tatggttatt ggctagaaat cctgagtttt caactgtata tatctatagt ttgtaaaaag 780
aacaaaacaa ccgagacaaa cccttgatgc tccttgctcg gcgttgaggc tgtggggaag 840
atgccttttg ggagagggtg tagctcaggg cgtgcactgt gaggctggac ctggtgactc 900
tgcagggggc atccatttag cttcagggtg tcttgtttct gtatatagtg acatagcatt 960

```

1143

```

ctgctgccat cttagctgtg gacaaagggg ggtcagctgg catgagaata tttttttttt 1020
taagtgcggt agtttttaaa ctgtttgttt ttaaacaac tatagaactc ttcattgtca 1080
gcaaagcaaa gagtcaactgc atcaatgaaa gttcaagaac ctctgtact taaacacgat 1140
tcgcaacgtt ctgttatttt ttttgtatgt ttagaatgct gaaatgtttt tgaagttaaa 1200
taaacagtat tacattttta aaactcttct ctattataac agtcaatttc tgactcacag 1260
cagtgaacaa acccccactc cattgtattt ggagactggc ctccctataa atgtggtagc 1320
ttcttttatt actcagtggc cagctcactt agggtgaga tgaaggagag ggctacttga 1380
agctactgtg tgattttgtt tgtgtctgag tggcattcag atgaagtctg gaggagttag 1440
gagaacgaca taggcaaggt tcagcagcct tccaaggtat aggaagggtg gtgattagga 1500
ctgaggctat ctaggtttta cttttgtccc acctccacc cctattttgt ggggccaaat 1560
gcattgctaa acagcaattt cagagtgtat ggtgtgtcaa aaattaaggc cttattgktt 1620
ttctctttca cccctacccc ccgtgctcct ggcacatata acattatttg tggtgcccaa 1680
catttggggg cttgagcctg ctgctgggtc cctggatgcc agtgagggtg tgtgggatgg 1740
ggtggtgggg taggggacgg tatccttttt ttgtcctac ttggaaacac caaacacccc 1800
aaggaagatg ataggctcca tcttgggcca cctgagctat agggcaggct aatggaatca 1860
accatttctg agcactaaat gtatcatgaa aagttgaatg gcctgctcat aagtttagct 1920
cattcactgg aaatgtagat tgatgttcaa tgttaaacctg gaaggagctt ggtttgtgtg 1980
tcagtgggta tattagtggg tagtgtaaca ttttatccag gttgggggtga ggggagatgg 2040
ccacagtagc aagtgggtgac actaaatacc attttgaagg ctgatgtgta tatacatcat 2100
tactgtccgt agcaatgaag gatacagtac tgtgttgtgg gtgagtgttg ctattgcca 2160
gcattaatat ttgggtgtgt atgtttgagg ctatgaaaca cgcaggagtg tttttgtgct 2220
attaatttta agagaaaagca gctttttctt aaaattcact gttgagaaac ttgcatgtct 2280
ggaggcgggt tcctctccgc cctgtcgggt cctggatgag tacgagttat ggtcacggtc 2340
acagcctgat ctcttatgtg ttcatagcca ttgcgtctcc catcagaact gtttgcctg 2400
aatgtgttcc tctagttcta gaaaatgacc actaatttaa aaaactcggg tgtgagggtt 2460
gcccagaggc acttgttcca gaatttcccc tcctgcttca gccatgtcct tgtcacttgg 2520
cattctaagc taaagcttta gcttcccaat tcgtgatgtg ctaggccaag attcgggagc 2580
tgttgccagc ctctgcaaat atggaagaga aacaacctgc ggtcaaaaagg gagtgatttg 2640
ttaagtgggt cgctctatc tcataactag atgtaccaac cagggaaggg ccaaggatgg 2700
aaaggggtaa cttttgtgct tccaaagtag ctaagcagaa gtgggggagc agtttagcca 2760
gatgatcttt gattaggcaa acattgagtt ttaaagaggc tgtcaagttg aggccacttg 2820
gtccattagc tggggcagca agatcactac tcaacgtttt cacactgtgg caagattgct 2880
cttctagtgg aataatgccc tagtttctct gagatgatgt aagtggcatg atgttaccta 2940
aggcttaggc ttagcttgat ttctggggcc actgtctgtg ttcttaagat gccaacctgt 3000
tgcttttttt tttttttccc ccatttaaaa ggatagtacc tactccctct aaccacctca 3060
ccccattctt gaatgacatt ttatcttcgg aaagaacaag gctgtgatgt agtgactatt 3120
gtctgtgtct cctgtgtgtg tctgttcttg tcacaaatgt atttggggac gttggatgca 3180
ttcattttct gtaataaagt ttcttaatca ctcttcccaa aaarwaaaaa aaaaaaaaaa 3240
aaaaaaaaaa aaaaaaaaaa aaaaaa 3266

```

<210> 1833

<211> 858

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (848)

<223> n equals a,t,g, or c

<400> 1833

1144

```

agattcattt ttccatttaa atttcagttt cttggatcac tgaatatggg aaggagagagc 60
ttcactaatt agacgcagct tcttaagaac ttatatcttc ttgacatac atctcaacaa 120
aaaaaaaaatc taactgaaga actaagttga tttttttattt gccataaacc aagcaaaaagt 180
aaatgcaata atttcgagat ttatggtaaa caaatgtgag gtatggataa atctttcaca 240
tatttttttat tgctcttttag taaagaaagg cacaagaaag aaaatatcca gctctcttgt 300
gttatctcag tgtggcgact gcagaaaatt gacaatgcct gcctgtgtaa atgtatggct 360
tactgtcaaa gcttcattct tggctgcatg ttgaaaatgt gattaaagtt aatagaggag 420
atgaaawaag tatttgagat ttttttcaat aacactgaac ttctgccaac tttctctatc 480
cgctactgta ggcttgacag gctcatcaat catttgctgg tacctggact aaaaagcgca 540
cttgctgaca ccaaggcatg ttggaatttt ctttaattcag tggatggaaa aagaaatact 600
tccaaaaata tcccacacat gaaaaggagg gggagcctta aatgaaaatt ccctttgtac 660
cgtagacact ttttggaatg cgattaattg ccaacacatc attgaacgaa tgctgtaacc 720
aagaaattaa gattgtgtgt gtgaaggga tatatcttta actgtggcta cccaacttgt 780
atagcaaaga tttctgatag tttgtgttca tctcatgtga ataataaata ctttacccta 840
aaaaaaaaaa aaaaaaag                                     858

```

<210> 1834

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<400> 1834

```

ataaagacat gtgaccttct tgggtggtat actggcaatt tttaaaatat ctgatttatt 60
gtcagctcac cacatgatgt gatatttgtt catgttgaag tagtgtgaaa gtaggcacat 120
tagtatgaaa gtatttctat taaagctgna attgctataa taacactaaa tcctgtgttg 180
gcatggaata actagatggt tttaagaaag tactttcttt ggaagattgg gagaaagtac 240
tttaatttaa acattaaaaa gatttggtaac tgctattttc aacagcagtc cccttan 297

```

<210> 1835

<211> 1258

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1237)

<223> n equals a,t,g, or c

<400> 1835

```

acaagatggc caaagggtgct aaagagattg atatcgcagc gaccctggag cacttgagtt 60
cgcgctgaca gccagtggtg gaggagggtga acgccatcct caaggccctt cccagtgag 120

```

1145

```

cggcagctca ggggcctcag gggagccccc accccacgga tgttgtcagc ccaagcagag 180
tgattcaggg gctccccggg ggcagacacc tgtgyacccc atgagtagtg cccacttgag 240
gctggcactc ccttgacctc acctttgcaa agttacagat gcaccccaac attgagatgt 300
gtttttaatg ttaaaatatt gatttctacg ttatgaaaac agatgcccc gtgaatgctt 360
acctgtgaga taaccacaac caggaagaac aaatctgggc attgagcaag ctatgaggg 420
ccccgggagc acacgaaccc tgccaggccc ccgctggctc ctccaggcac gtccccggacc 480
tgtggggccc cagagagggg acatttccct cctgggagag aaggagatca gggcaactcg 540
gagagggctg cgagcatttc cctcccggga gagatcaggg cgacctgcac gcaactgcgt 600
gagcctggaa ggggaagtga aaaccagccg accggccctg cccctcttcc cgggatcact 660
taatgaacca cgtgttttga catcatgtaa acctaagcac gtagagatga ttcggatttg 720
acaaaataac atttgagtat ccgattcgcc atcacccct accccagaaa taggacaatt 780
cacttcattg accaggatga tcacatggaa ggcggcgagc aggcagctgt gtgggctgca 840
gatttctctg gtgggggttca gcgtagaaaa cgcacctcca tcccgccctt cccacagcat 900
tcttccatct tagatagatg gtactctcca aaggccctac cagaggggaa acggcctact 960
gagcggacag aatgatgcca aaatattgct tatgtctcta catggtattg taatgaatat 1020
ctgctttaat atagctatca tttcttttcc aaaattactt ctctctatct ggaatttaat 1080
taatcgaaat gaatttatct gaatatagga agcatatgcc tacttgtaat ttctaactcc 1140
ttatgtttga agagaaactc cgggtgtgaga tatacaata tatttaattg tgtcatatta 1200
aacttctgat ttcacaaaaa aaaaaaaaaa aaaaaanccc gggggggccc ggaccatt 1258

```

<210> 1836

<211> 761

<212> DNA

<213> Homo sapiens

<400> 1836

```

cagaatttac ccctgacgcg gcggcgggcg acgggaagct gtgtgtgctt aggtcgtggt 60
ggccccgggtg gtggtgggct ccggcggggc tcgcgtcacc ctgcccccg cgcgatgcat 120
ccgcggcgcc cggacggatt tgatggcttg ggctaccggg gtggtgcccc ggacgagcag 180
ggctttggcg gcgccttccc tgcaaggctc ttcagcaccg ggtcggacct gggccactgg 240
gtgacgactc ccccagatat ccccggcagc cgcaacctgc actggggcga gaagagcccc 300
ccctacggcg tgcccaccac ctccaccccg tacgaaggcc ccacggagga acccttttcc 360
agtggcgggc gcggcagtggt gcargggcag agcagtgaac agctgaatag atttgctgga 420
tttggtattg gacttgcaag tctctttaca gaaaatgtat tggcacatcc ttgcattgtt 480
ctacgccgcc aatgtcaggt taattaccat gctcagcatt accatctcac tccatttaca 540
gtcatcaata ttatgtacag tttcaacaaa actcagggac ctagagccct gtggaaagga 600
atgggaagta cttttattgt ccaggagtc acacttggag cagaaggcat aattagtga 660
tttacacctt tgccaaggga ggttttacat aaatggagtc ctaaacaat aggagaacac 720
cttctactga aatccctaaa cttacgtggt ggcaatgcct t 761

```

<210> 1837

<211> 925

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

1146

<221> misc feature
 <222> (114)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (352)
 <223> n equals a,t,g, or c

<400> 1837
 aagacattgg accagagtgg agacgcgccc ttgtccccgg gagggggcgg ggcagcctcg 60
 ggctgcggct cgaggccacg cccccgtgcc cagggcgggg ttccggggacc ggnntgccgg 120
 cctcccttcc cctatggact cctcgacccc cctcctaccc ctccccctgc gcgctcgcgg 180
 acctcgctgg agccgggtgcc ttacacagcg aacgcgggga ggggcagggc cccctgacac 240
 tgcagcactg agacacgagc cccctccccc agcccgtcac ccggggcccg ggcgaggggc 300
 ccatttcttg tatctggctg gactagatcc tattctgtcc cgcgggcgcc tncaaagcct 360
 cccaccccac cccacgcaca ttcttggtcc ggtcgggtct ggcttggggg ccccttttct 420
 ctgtttccct cgtttgtctc tatcccgccc tcttgctgtc tctctgtagt gcctgtcttt 480
 ccctatttgc ctctcctttc tctctgtcct gtcgtctctt gtccctcggc cctccctggg 540
 tttgtctagt ctccctgtct ctctgattt cttctcttta ctcatctctc cgggcagggtc 600
 ccactggaag gaccagactc tcccaaataa atccccacac gaacaaaatc caaaacccaaa 660
 tccccctcyc taccggagcc gggaccctcc gccgcagcag aattaaaact ttttctgtgt 720
 ctgaggccct gctgacctgt gtgtgtgtgt gtgtgtgtgt gttgggggag ggtgacctag 780
 attgcagcat aaggactcta agtgagactg aagggaagatg ggaagatgac taactggggc 840
 cggaggagac tggcagacag gcttttatcc tctgagagac ttagaggtgg ggaataatca 900
 caaaaataaa atgatcataa tagct 925

<210> 1838
 <211> 542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (421)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (509)
 <223> n equals a,t,g, or c

<400> 1838
 ggcacgaggt tgaaaataac acattaggaa gtccagctgc ctcagagctt ttagagcatc 60
 tcaaacctac ttattggttt tctgcccacc ttcattgtgaa gtttgccgcc ttgatgcagc 120
 atcaggcaaa ggataaagga cagacagcca gagcaaccaa attttttagcc ttggacaaat 180

1147

```

gcttaccaca tagagatttt cttcagatat tagagataga acatgacccc agtgctcctg 240
attacttgga atatgatatt gaatggctca ctattctcag ggctacggat gatcttatta 300
atgtgactgg gcgcctgtgg aatatgccag aaaataatgg cctgcatgca aggtgggatt 360
atagtgcaac agaagaagg atgaaagaag tattggaaaa attgaatcat gatctcaagg 420
ntccatgtaa ctttagtgta acagctgctt gttatgatcc tagcaagcca canacacaaa 480
tgcagctgat tcataggatc aatcctcana caactgaatt ttgtgcccaa cttggcatca 540
ta 542

```

<210> 1839

<211> 442

<212> DNA

<213> Homo sapiens

<400> 1839

```

tgcctataaa attacactgc ctccaattat gaaattcagg gatcttgtac ataattctaa 60
gtttgggaca gaaatttaca agcgatttct catatatata tacatttata tatgtacatg 120
ttacatatat ttagatgtat tctcatatac atatgaaaat atttatgatg aatagaatta 180
taagatatgt atgtatcttg cactgaatca taatttgaaa tatttcatga attcatttac 240
ttctattgac tcccaaaaatt ctaackgcaa gctagcttca gaacctgtga gaaccccacc 300
ccaccaagc agctgcctag atttgtctac tgctatcatt ttgtgtaaag cagttgttct 360
aacttgaatg agtctagaat tcatcattaa gattgtgata tttatagagc atccaatgtg 420
gagatcatga tactttaaat at 442

```

<210> 1840

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 1840

```

ttaccctcac taaaggggnc aaaagctggn gctccaccgc ggtgacgacc gctctagaac 60
tagtggtatcc cccgggctgc aggaattcgg cagagccca gctcaccgc tgctagctgg 120
ggtcctgctc tgggtgggagg aagaggctca gacgcttccc tgccctctcg cctcaaccam 180
ctcgargcag cggctcccag gatgtgcamt ttgacgacta aagctgagcc ggcgccgcac 240
gaccttgggc ggggtggtcgg cctctgccct gagcaggaag tagaaagtct cagcagaccc 300
ttcctgaggg ccgagcaaca gtgtagtggc gtattccaca tagcaaacag ttttctgaag 360
ctcagagggg caccttgatg tgctggatga taaaaacagg agcaaagtga tgaagtgtctg 420

```

1148

```

acaaggcaac aatagaacat gagagattca ctgctgtgta ggaagagatc ttcggtgacc 480
atgtagcctg aagctctcat tttgtcaatc gagggg                               515

```

<210> 1841

<211> 1027

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1022)

<223> n equals a,t,g, or c

<400> 1841

```

ccacgcgtcc gagecttcgc cggcggtcccg acccgaggcc ggacccgagg ccagtcccgc 60
cgctgcgcag ccgaagccag tgcggggcct gagagggagc cgcgccccgg ggcctccgcc 120
gcgggcacca tgggcgctgc ccactccgcg tctgaggagg tgcgggagct cgagggcaag 180
accggcttct catcggatca gatcgagcag ctccatcgga gatttaagca gctgagtgga 240
gatcagccta ccattcgcaa ggagaacttc aacaatgtcc cggacctgga gctcaacccc 300
atccgatcca aaattgttcg tgcctttcttc gacaacagga acctgcgcaa gggaccagct 360
ggcctggctg atgagatcaa ttctgaggac ttcttgacca tcatgtccta ctccggccc 420
atcgacacca ccatggacga ggaacagggtg gagctgtccc ggaaggagaa gctgagattt 480
ctgttccaca tgtacgactc ggacagcgac ggccgcatca ctctggaaga atatcgaaat 540
gtggtcgagg agctgctgtc gggaaaccct cacatcgaga aggagtccgc tcgctccatc 600
gccgacgggg ccatgatgga ggcggccagc gtgtgcatgg ggcagatgga gcctgatcag 660
gtgtacgagg ggatcacctt cgaggacttc ctgaagatct ggcaggggat cgacattgag 720
accaagatgc acgtccgctt ccttaacatg gaaaccatgg ccctctgcca ctgaccacc 780
gccacctccg cggagaaact gcacttttgc atggggccgc ctccccgcgt agctggagca 840
gcccagggcc ggcggacagc ctcttccctgc agcgccggta catagccaag gctcgtctgc 900
gcaccttgtg tcttgtaggg tatggtatgt gggacttcgc tgtttttatc tccaataaaa 960
aaaaaaaaaa ggtttgttaa waaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
angggggg                                     1027

```

<210> 1842

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 1842

```

atcttgtggr akgttttaca gacaagttag ccaagacaca gataagttag gttacggggc 60
aaagtaatac agtgattgag cagtggagct gaaggagatc caggcagctt gactggcaga 120
gcctttttct tcaccacgac atgggcagag gttagagagt tttgccacac tggcggctga 180
gtgacacatc aaggagggat gtggttgacg caggctaaag gccataggaa gggaggagct 240
ggagactcca gggtcgcagc caccttggtg ggctgggggtg gggcaggagg ccgcagcaac 300
agagacgggg tgggattgaa gaagtctttt ttttttctnt ttttttaaca aaagaaatag 360
aacttgtcta tatgctgggg tktgggaaag gagcaagtag atggagagag gctgaagata 420

```

1149

cttgcttctg gggaggagct ggag

444

<210> 1843

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 1843

```

gcctatttga atggaatcct gctcttttga catatgctga agatatttct tgaaaatggc 60
gaaaatactt accaccccca aatttgctca tgctttcagg aatctcactt ttgaagggta 120
tgacggtcca gtgaccttgg atgactgggg ggatgttgac agtaccatgg tgcttctgta 180
tacctctgtg gacaccaaga aatacaaggt tcttttgacc tatgataccc acgtaaataa 240
gacctatcct gtggatatga gccccacatt cacttgggaag aactctaaac ttcctaataa 300
tattacaggg cggggccctc agatcctgat gattgcagtc ttcaccctca ctggagctgt 360
ggtgctgtcc tgtcgtcgct ctctgatgc tcagaaaata tagaaaagat tatgaacttc 420
gtcagaaaaa atgggtccac attcctcctg aaaatatctt tcctctggag accaatgaga 480
ccaatcatgt ttagcctcca gatcgatgat gacaanagac ganattccat ccagaagact 540
acaacagtgc                                     550

```

<210> 1844

<211> 326

<212> DNA

<213> Homo sapiens

<400> 1844

```

caattgcagg tgtccatgcc tcccacacat ggggacctag tgggttttga cagcgtggtg 60
tccagtccca gccccctcag tgcttgctgt tcacacttaa gcaagtraag gcctgaaggt 120
gcccagctgt gccctcaggg gaaacttaag tcacccgccc gtgcagcact tggcccttgt 180
cgggcagtga gagtggagct gccccgcag accctcagga gccatgcagt tcacagcagt 240
agctggatyt ccctgaggac atttgtcctt gcatatctta atgatttgtc cacagaaaca 300
cggggttgtc ttcctctgcc cctcct                                     326

```

<210> 1845

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

1150

<220>
 <221> misc feature
 <222> (532)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (561)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (570)
 <223> n equals a,t,g, or c

<400> 1845
 cgaaattaga aaaggtgatg aatttggagg aaggggaatt ggctgcacct gtttctgata 60
 tgttcagaag cttaatgaat ataataattct aatttaaata aactgtttga ttgagaaaag 120
 aggtagccac attattgttt agaaatgata gactgttatt gacttttggg gtagctggga 180
 agctggagaa gaggtagtat gtagtttgct tttgatttca aaatgccacc tcttctgatt 240
 ccagatacaa ttatcttttg gcacatttcc taattagcat taggttctta taaatgaaat 300
 tttatttttac acacagtttt taatggaact tacttttgaa catcacgaaa gttatctcta 360
 gcccttttca tgccttargt gctgatrage attccgttta tcataagcta tgtcattagt 420
 ctcagcttcc tagtgggaag taaaactcat agncaattct ctcagtcac catggatata 480
 tagctagggtg ggggccagat gatttgaaaa ttaacatatt gttatttagg gngccttggt 540
 tttcatttta aggtgggttc nggcacctn gtttgaa 577

<210> 1846
 <211> 732
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (190)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (194)
 <223> n equals a,t,g, or c

<400> 1846
 cagcgatttc tgaactgaac gcaggcaagg gacgcgagag acaaatttta caggaaacca 60
 ttcacaactt tcaactcttc tttgagagca gtgccagcaa caccagggcc cctggcaaca 120
 gccctgtgc gtgatcctcc ttccgcagc caccarccca tggttgggtg ggtgaggcca 180
 gaagaaactn cctncggcaa gaggtagcag ccgctcaggt ggytctsetg gcatcggagc 240
 ccacagaagt raggagtggc cgatggacct gccctccaaa tgtgcctgac tctgggtcct 300
 gctgtcactg gatttcctgg catggcagac agaaagaaag atagtttgac caagtcgtag 360
 aagctgatcc agcgggtaaa aagggggcag ggaactcgtc ccttttattc ttgcctcaga 420

1151

```

gctgcctgaa gacatggggcc aggccggagg ctggacaact ttggataacg ctgacctgta 480
cttccaagta aatgcctcct gaagagcccg ggacccttcc tgggagaatt ctgcagccag 540
aatgaagggtg ccatcagcag gaggcactgt gaagcaccat cctgtcgtg tccttggtcca 600
ttcctagcaa gttaatcgtg tcttgttaac cagcagttcc tgttcaacgt gtaaagagac 660
ctgatgtttt ccctaataaa gctgataaca gatttttgcag gaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaag tc 732

```

<210> 1847

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<400> 1847

```

gcgggctctg agtgctcttk cccgtccggc cccagccgcg gcccggaat ctacgtcacc 60
cgaaaagcga ctataaacgc cggcgctcc gtccccagcc gcggctcggg aatccaccgc 120
aagagtggct ataaacgtcc gcgcctccat tgcgctctcc tcttactta ggacactggg 180
ctccccacgc ctgacaccga cgtcgccagg accgcggggg tgggggaact tggctgtccc 240
acgtctttca aataaagctg ttttgtctaa ctcaaaaaaa aaaaaaaaaa aancgagttt 300
tttttttttt ttttna 316

```

<210> 1848

<211> 717

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

1152

<221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<400> 1848

```
cgagcagtag  cgngaagnca  gacgnacgta  tagggaaagc  tggtagcct  gcaggtaccg  60
gtccggaatt  cccgggtcga  cccacgcgtc  cgggagaagt  gctcttttct  acttgtgggg  120
tctcccattg  gaaacataat  cctatagtcc  cagaaggatt  cagtccccag  tggctttccc  180
atccaaagag  aaagagtttg  agtttcttaa  ctctgctgtt  ctgccactta  ctcccactag  240
acaaccaggg  acaaggtgca  acatggaagt  gtttgactta  agtaggagca  gaggagctgc  300
atctaattct  atcatacctg  gaacttgaca  cacttaagca  aatgccttcc  catccctacc  360
tgccagatgc  cccaactca  atgaagttgg  atgtctcacc  agcttgatac  cctttgaatt  420
ttcagtcaga  cattctggag  ttctagcatc  ctgtacctag  gaccttcttc  tgtgtcactc  480
ttggcctcct  aaactctaag  aaaataacta  tattctggag  cttgggcagt  gtgttttgca  540
taatccagca  atctcctcat  gacatgcatg  tnttgatagt  cctgaaacat  tcattgagag  600
ggtaaatgca  gttgacctag  aatgaccaat  accaaacaga  attttaagaa  caggtggcca  660
actcctatgg  agcttactca  catattacta  ttcttttaag  aacggaaaag  taaaatt     717
```

<210> 1849
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
 <222> (348)
 <223> n equals a,t,g, or c

<400> 1849

```
gggacgagga  agccaaggac  gaaaaggcag  agcccaacag  ggacaaatca  gttgggcctc  60
tccccaggc  ggacccggag  gtttcagaca  ttgaatccag  gattgcagcc  ctgagggccg  120
cagggctcac  ggtgaagccc  tcgggaaagc  cccggaggaa  gtcaaacctc  ccggctcttt  180
atgaggggac  tctgagcctc  tgctctgagg  atctgaaaca  cacacaccct  gacagtgtaa  240
aatccaaaag  gagccgcctg  aatcatgttg  cctcatgtgg  aaatcttagt  ccgccgccac  300
gtgaagatgg  atgtgactag  aacggagggc  gccggaagct  yacatyanar  garctgctca  360
cgt                                                363
```

<210> 1850
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
 <222> (507)
 <223> n equals a,t,g, or c

<400> 1850

```
gtaaaaatga  gacgaccacc  tctcggatta  aaaaaaaaaa  gtgccagagt  tctagggttc  60
taagtgatgt  ccaggaagga  ggaggaataa  tatttatgga  gcatatatta  tggaacacag  120
tgagtatagt  acctgccttt  aaatgaatac  tgttggtttt  ttaggacagt  tgcttttttt  180
```

1153

```

tcttttttct tcagctgtgt gcagttgatt aacttgtaca gagectatca cacaatagat 240
gtttaagaaa tattaagtga atgaatgagg cagcattgct aatttttgta tagtgagaca 300
gtatctcaca gtccaggctg gagttcagtg gcattaacat aactcactgc agccttgaac 360
acctgagctc aaacgatacct ttcaccttat cctccagagt agctgggact acagtcgcgt 420
gtcaacatgc ctggctaatt ttagttttct aattttttta gagttgggat ctactatgt 480
tgcttagact ggtcttgaac tcctggntc atgccatcct cttgcctcag ctggta 536

```

<210> 1851

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 1851

```

gcttgacctg cggcagtgca gcccttggga cttccctcgc cttccacctc ctgctcgtct 60
gcttcacaag ctatcgctat ggtgttcgtg cgcaggccgt ggcccgcctt gaccacagt 120
cttctggccc tgctcgtctg cctaggggag ctggctcgacg cctaccccat caaacccgag 180
gctcccggcg aagacgcctc gccggaggag ctgaaccgct actacgcctc cctgcgccac 240
tacctcaacc tggtcacccg gcagcggat gggaaaagag acggcccgga cacgcttctt 300
tccaaaacgt tcttccccga cggcgaggac cgccccgtca gtcgcggtaa aagcgcccg 360
taccacacat cctgcatccg agagcgcggc ctggccctac cctggcaaca tcatttaacg 420
acgtctccca ggctcgcctc cccagatcca attcttncct tcgttncgca gtcggagggc 480
caaactgtgg tgaggaccct gaggtctctg gagnetgcca acagccagtc atttga 536

```

<210> 1852

<211> 2005

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

1154

<223> n equals a,t,g, or c

<400> 1852

```

ctatcagacg atgaattgaa acacctcatt ctcagggcag cagatggatt tttgtttgtn 60
gtaggatgtg accgagggaa gatactcttt gtctcagagt ctgtcttcaa gatcctcaac 120
tacagccaga atgatctgat tggtcagagt ttgtttgact acctgcatcc taaagatatt 180
gccaaagtca aggagcagct ctctctctct gacaccgcac cccgggagcg gctcatagat 240
gcaaaaagat gaagtgtaac aggccttcag taaargttga agacaaggac ttccccyctw 300
cctgctcaaa gaaaaaagat cgaaaaagct tctgcmcawt ccacagcaca ggctatttga 360
aaagctggcc mcccacaaag tggggctgga tgaagacmac gaaccagaca atgaggggtg 420
taacctcagc tgcctcgtcg caattggacg actgcattct catgtagttc cacaaccagt 480
gaacggggaa atcaggggtga aatctatgga atatgtttct cggcacgcga tagatggaaa 540
gtttgttttt gtagaccaga gggcaacagc tattttggca tatttaccac aagaacttct 600
aggcacatcg tgttatgaat attttcacca agatgacata ggacatcttg cagaatgtca 660
taggcaagtt ttacagacga gagaaaaaat tacaactaat tgctataaat ttaaaatcaa 720
agatggttct tttatcacac tacggagtcg atggttcagt ttcatgaacc cttggaccaaa 780
ggaagtagaa tatattgtct caactaacac tgttgttttg tccagagtgg acaccggaca 840
ccttggccaa gttgaaaggt gcacagttct gaggcaggcc tgacttcacg tttccttatt 900
gcntgggatg ttcacagagc caacgtcctg gaaggcgggg acccaacctt cccacagctc 960
acagcatccc cccacagcat ggacagcatg ctgccctctg gagaaggtgg cccaaagagg 1020
accaccccca ctgttcagg gattccagg ggaacccggg ctggggcagg aaaaataggc 1080
cgaatgattg ctgaggaaat catggaaatc cacaggataa gaggtcatc gccttctagc 1140
tgtggctcca gccattgaa catcacagat acgcctcccc ctgatgcctc ttctccagga 1200
ggcaagaaga ttttaaattg agggactcca gacattcctt ccagtggcct actatcaggc 1260
caggctcagg agaaccagg ttatccatat tctgatagtt cttctattct tggtgagaac 1320
ccccacatag gtatagacat gattgacaac gaccaaggat caagtagtcc cagtaatgat 1380
gaggcagcaa tggctgtcat catgagcctc ttggaagcag atgctggact ggggtggcct 1440
gttgacttta gtgacttgcc atggccgctg taaacactac atgttgcttt ggcaacagct 1500
atagtatcaa agtgcattac tgggtggagtt ttacagtctg tgaagcttac tggataagga 1560
gagaatagct tttatgtact gacttcataa aagccatctc agagccattg atacaagtca 1620
atcttactat atgtaacttc agacaaagtg gaactaagcc tgctccagtg tttcctcatc 1680
attgattatt gggctagctg tggatagctt gcattaattg tatatttttg attctgtttg 1740
tgttgaaatt tttaatcatt gtgcacagaa gcatcattgg tagcttttat atgcaaatgg 1800
tcatttcaga tgtatggtgt ttttacacta caaagaagtc ccccatgtgg atatttctta 1860
tactaattgt atcataaagc cgttttattct tccttgtaag aatcctttac tataaatatg 1920
ggttaaagta taatgtacta gacagttaaa tatttttaat aaatgtttcc cttgttctat 1980
aaaaaaaaa aaaaaaaaaa aaaaa 2005

```

<210> 1853

<211> 566

<212> DNA

<213> Homo sapiens

<400> 1853

```

gtggacgcgt gggcggacgc gtgggacagg atgggagctt tgatgggtgga ggcggaaaaga 60
aagatcccgag gcaggagaga caattgaagc aaaggccttg agttgagaat tggccgtgcc 120
ctcatccttt cctgttttct ttttgttttg gcaatgaaaa gagcatggac tttgggggtg 180
gatgtgcctg cattcagggtc ttgacactgc tgtattaccg ctcccaattt cttcatgaaa 240
caagattaac agtatcactt gtatcagtta ggggtttgtt gttatgagca acctaaacct 300
actctggcta acttaaacat aaaaggaatc tattgggatc tattgacctg ccaagcctca 360
gaaaggacag gaatcaggga agcttcagag acctaaggag cagcagctga tagtatcttc 420

```

1155

```

agagtgcctgc tgtcagaata aacctacaag ggckggttttc tctccttgtc ccaaccagat 480
caaggttcag attcctgaga aagaacctcc gtggtttagga agaacacaag cacattgatt 540
gacagcacta ggggaggtgt tgttcc 566

```

<210> 1854

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 1854

```

gantaccgtt tctcgagtcc gggcattgta caagcgcgtc ttgcagctgc accgtgttct 60
gcccccgac ctcaaattccc tgggcgacca gtacgtgaaa gacgaattta ggagacataa 120
gaccgttggc tctgacgagg cacagcgttt cttgcaagaa tgggaggggt ttaagtgcct 180
aaagtcaggg agagaaaagg agacagtatt taaggaattt aagatcttga agtggaaaaa 240
gcctanaaga 250

```

<210> 1855

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1143)

<223> n equals a,t,g, or c

<400> 1855

```

ggctaaataa gctatcgggc ccataccccc aaaatgttgg ttataccctt cccgtactaa 60
ttaatccccct ggcccaaccc gtcactctact ctaccatctt tgcaggcaca ctcattcacag 120
cgctaagctc gacttgattt ttacctgag taggcctaga aataaacatg ctactcttta 180
ttccagttct aacccaaaaa ataaaccctc gttccacaga agctgccatc aagtatttcc 240
tcacgcaagc aaccgcatcc ataaccctc taatagctat cctcttcaac aatatactct 300
ccggacaatg aaccataacc aatactacca atcaatactc atcattaata atcataatgg 360
ctatagcaat aaaactagga atagccccct ttcacttctg agtcccagag gttacccaag 420
gcaccctctc gacatccggc ctgtctcttc tcacatgaca aaaactagcc cccatctcaa 480
tcataacca aatctctccc tctaataacg taagccttct cctcactctc tcaatcttat 540
ccatcatagc aggcagttga ggtggattaa accaaacca gctacgcaa atcttagcat 600
actcctcaat taccacata ggatgaataa tagcagttct accgtacaac cctaacataa 660
ccattcttaa ttaactatt tatattatcc taactactac cgcattccta ctactcaact 720
taaactccag caccacgacc ctactactat ctgcacctg aaacaagcta acatgactaa 780
cacccttaat tccatccacc ctctctctcc taggaggcct gcccccgcta accggctttt 840

```

1156

```

tgcccaaatg ggccattatc gaagaattca caaaaaacaa tagcctcatc atccccacca 900
tcatagccac catcaccctc cttaacctct acttctacct acgcctaata tactccacct 960
caatcacact actccccata tctaacaacg taaaaataaa atgacagttt gaacatacaa 1020
aaccaccccc attcctcccc acactcatcg cccttaccac gctactccta cctatctccc 1080
cttttatact aataatctta taaaaaaaaa aaaaaaaaaa tcsagggggg gcccggtacc 1140
canttcgccc tatagttag 1159

```

<210> 1856

<211> 936

<212> DNA

<213> Homo sapiens

<400> 1856

```

ggcacaagac caaaactcca aatgcatcgg cactgacctc aacaggaatt ttaatgcttc 60
atggaactcc attcctaaca ccaatgaccc atgtgcagat aactatcggg gctctgcacc 120
agagtcgag aragagacga aakctgtcac taatttcatt agaagccacc tgaatgaaat 180
caagggtttac atcaccttcc attcctactc ccagatgcta ttgtttccct atggatatac 240
atcaaaactg ccacctaacc atgaggactt ggccaaagt gcaaagattg gcaactgatgt 300
tctatcaact cgatatgaaa cccgctacat ctatggccca atagaatcaa caatttacc 360
gatatcaggt tcttctttag actgggctta tgacctgggc atcaaacaca catttgcctt 420
tgagctccga gataaaggca aatttggttt tctccttcca gaatcccgga taaagccaac 480
gtgcagagag accatgctag ctgtcaaatt tattgccaag tatatcctca agcataacttc 540
ctaaagaact gccctctgtt tggaataaag caattaatcc ttttttgtgc ctttcatcag 600
aaagtcaatc ttcagttatc cccaaatgca gcttctatct cacctgaatc cttctcttgc 660
tcattttaagt cccatgttac tgctgtttgc ttttacttac tttcagtagc accataacga 720
agtagcttta agtgaaacct ttaactacc tttctttgct ccaagtgaag tttggacca 780
gcagaaagca ttattttgaa aggtgatata cagtggggca cagaaaacaa atgaaaaccy 840
tcagtttctc acagattttc accatgtggc ttcatcaatt tatgtgctaa tacaataaaa 900
taaaatgcac ttaatgcctt aaaaaaaaaa aaaaaa 936

```

<210> 1857

<211> 534

<212> DNA

<213> Homo sapiens

<400> 1857

```

gcagtgctag atattgttwt aaattattty cattttaaac aagatgcctt ctaagctatt 60
gagcttatta aaaataattt tacatgttta cttagtgtga gcaaaaataa gtctatttta 120
acaaatagct ttgtttttgc atgctaattg cagaaaggca tacgatgcac attatgctgt 180
tttaaagggt ttaccaccct tgtaaaaact ataacttta atggttttat ttgctgttac 240
acaaacaaca ctacataaaa cattttttcc taaatggtag aaatttataa actatcattt 300
ttcacttacg gtatttgtaa atactacact acaaaaatca gctttctgag aaagaaataa 360
tcattttatt atgatattga aaatttctac agtaaactc caaaaccaag caaaaaacat 420
ttgtaagata cacggtatct atttgagca acgggttttg taactaatgt gtttcatttt 480
ttaaataaag acaactaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 534

```

<210> 1858

<211> 1730

<212> DNA

<213> Homo sapiens

1157

<400> 1858

```
gttctacctc ggtagcagca ccgcttctga tttccttgca gtggagatgc ggcgagggag 60
agtggccttc ctgtgggacc tgggctccgg gtccacacgc ttggagtttc cagactttcc 120
cattgatgac aacagatggc acagtatcca tgtagccaga tttggaaaca ttggttcact 180
gagtgtaaaag gaaatgagct caaatcaaaa gtcaccaaca aaaacaagta aatccccctgg 240
gacagctaata gttctggatg taaacaattc aacactcatg tttgttggag gtcttggagg 300
acaaatcaag aaatctcctg ctgtgaaggc tactcatttt aaaggctgct tgggggaggc 360
cttcctgaat ggaaaatcca taggcctatg gaactatatt gaaaggggag gcaagtgccg 420
tgggtgcttc ggaaagctccc agaatgaaga cccttccttc ctttttgacg ggagtgggta 480
ctctgtcgtg gagaagtcac ttccggctac cgtgacccag ataactcatg tttttaatac 540
cttttcacct aatggacttc tttctctacc tgggttcata cggcacaaaa gactttttat 600
ccatcgagct gtttcgtggc agagtgaagg ttatgactga cctgggttca ggacccatta 660
cccttttgac agacagacgt tataacaatg gaacctggta caaaattgcc ttccagcgaa 720
accggaagca aggagtgcga gcagttatcg atgcctataa caccagtaat aaagaaacca 780
agcagggcgga gactccggga gcatcttctg acctcaaccg cctagacaag gacccgattt 840
atgtgggtgg attaccaagg tcaagagttg taaggagagg tgtcaccacc aaaagctttg 900
tgggctgcat caagaacctg gaaatatcca gatcaacctt tgacttactc agaaattcct 960
atggagtgcg aaaaggctgt ttactggagc ccatccggag tgtagcttc ctgaaaggcg 1020
gtacattgca attgccacc aaatctttgt caccagaatc agaatggctg gtaacatttg 1080
ccaccacgaa cagcagtggc atcatcctgg ctgccctcgg cgggggatgt ggagaagcgg 1140
ggtgatcgtg aggaagcaca cgtgccctts ttttccgtca tgctgatcgg aggcaacatt 1200
gaggtacatg tcaatcctgr ggrtgggaca ggcytgagaa wagctctcct gcacgctccc 1260
acgggtacct gcagtgatgg acaagcgcac tccatctcct tggtcaggaa tcggagggtac 1320
ttgcacgcgg ccaggcagtg tgtaatgaag gtgtgggtgag ctgagaggga atgtgggagg 1380
aaccttgccg tggtgccctg grcggctaga tgactggggc catcgccatc cagacgattc 1440
tagaaccttg ctaggattct ttcctgggaa ccagtttcat ctgctttgta ataagatact 1500
tgtagaattt ttataattaa acaactttag ctctgccctt tactggggcc cagcataaat 1560
tgtctttaca ttggattgat tctgtggcaa atagtagtac actattagta aatagtatta 1620
tatcaatagt aaatagcatt atatcaacat tcctgtatat ttccctccaa aatatagact 1680
gaatgcttta aaagcacact gggcattttc atcataggta aagagggttaa 1730
```

<210> 1859

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (883)

<223> n equals a,t,g, or c

1158

<400> 1859

```

ctcagagtag ctggatTTTT ctaaagcaat tgcagaacac ctgctTTTTc tttgtttcct 60
ctagaaagga ccaaccacrc cgagctcagt tatggcacac acagtgggac ctagacaaag 120
ggagagggtg accgacatcc caactaggta aacacagagg aggttccaca tggacttatc 180
tgggtggctg ttttgaaaac gagaaacagt caagagtccc tggccccaca gaccacctc 240
cccaactcag cactgtctgt ctgtgcagca ggtgcaagga cgtgttgaaac tagctctctg 300
cagcctcctt ggaggatgtg atcctatggg aggggtagga gtattcagtc cttgacatyt 360
cccaaagtgt tgattccggg atgccaaagg cctttggcca ggtaatgcag tgtytacagg 420
ytgaggttga catgcacccc caccctctga gaaaaagatc ctcagacaat ccatgtgctt 480
ctcttgtcct tcatnccacc ggagtctgtc tcanacccaa cyagatttca gtggagtga 540
gttcaggagg catggagctg acaaccatga ggctcggca gccaccgcca ccaccgccgc 600
cgccaccacc gtagcagcag cagcagcagc agcagcagca agagtaactc tgacttagga 660
atagagacag ccagagagaa atgtgatcaa tgaaggagac atctggagtg tgcgtgcttc 720
ttcagaggga cgggtgatgg gcagattgga aaaagcaccg cagatgggaa ccttaatctt 780
tcttttctaa aattgatgct atgaaaaatt gcgttttctg taacttgtaa aaactaaaag 840
ttgcttgtct actgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 890

```

<210> 1860

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<400> 1860

```

aaattaaccc tcactaaagg gnncaaaagc tgggagctcc accgcggtga cgnccgctct 60
agaactagtg gntcccccg gctgcaggaa ttccggcacga gaacaactga aggtgaagaa 120
atcactgagt caagtagcac tgaagaaatg gaggtcagaa gtgtggtggc tgatactgac 180
caaaaggctt taggaagtga agttcaggat gcttctaaag tcactactca gatagataaa 240
gagaaaaaag aaattccagt gtcaattaaa aaagagcctg aagttactgt agtttcacag 300
cccactgaac ctcagcctgt tytaataccc agtattaata tcaactctga cagtggagaa 360
aataaagaag aaatagggtt tttatcaaaa actgaaacta ttctgccacc agaactctgag 420
aatccaaagg aaaatgataa tgattcaggc actggttcca ctgctgatac tagcagtatt 480

```

1159

gacttgaatt tatccatctc tagctttcta agtaaaacta aagacagtgg atcgatatct 540
ttacaagaaa caaaaaaa 558

<210> 1861

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (682)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (688)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

<400> 1861

acnaacnctt actaaaggga acaaaaagntg gaagctccac cgcggtgtng accgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggggtcaggg ccagagccag 120

1160

```

aatccgaatc agaatcagag tcagaaccca aatccgaatg ccaatcagaa cctgactcag 180
aatctgatgc agaatctgac tcagagtttg agccagaagg agaaccggga aagcccgaag 240
cagaactcag gcaaggagca gaatgataac accagcaatg gcaccaacga ctacataggc 300
agtgtagaga aatggcggtta aatgggtcaa aaaggcctgt acatacttct cccaaagcgc 360
cactgaaaag atggcatagc ttaaaagatg aaagtgtcca aacacatcct gcttccttca 420
ttggggaagt tttaaaaaaa gtttagatgt tgcctttaca gttgcctttc aattcagtgt 480
tatactgtgt gtaggtaaaa caaatctcaa tatggaatta aattgtcttt ttgggggttg 540
actaaatatg aaatccgaaa gccaaaccag actcaccaga aattgctgtt tagatatatt 600
aagaagttct taaattagtt atggagacaa agtgaaaaca taaaatgtga ccatttaact 660
tatggctaag aaatggactt tnaaattnat tccatggata cactgttaaa acccaatctt 720
ggaatcaaat attttttccc agggggtgga ggaataagta ttaaacatta agggcaactt 780
aaaatggnaa cataaaacct tttatnttcc ttctggattt taaacaaggg atctatttta 840
aat 843

```

<210> 1862

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<400> 1862

```

gggtgaaggc catttgggca agccagggcg gctgcgaggc cgatctccct gacccagggc 60
cggagttgcc cggagcctgc caccgctctc agccagcccg catccttctc tgttcttccc 120
ntcccccgtc tgccacggcg cgggtatccg cagccacagc ccggcgccgg tgaggcggcr 180
aagggggagg ggaggaatca agggatgagc gccggaaggc cgtmgggggc cctgagccgn 240
actaggacgc cccttggggc cgga 264

```

<210> 1863

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<400> 1863

```

ngcggcagat cttccagtcc ctgccgccct tcatggacat cctcctgctg ctgctgttct 60
tcatgatcat ctttgccatc ctcggtttct acttgttctc ccctaaccct tcagaccctt 120
acttcagcac cctggagaac agcatcgta gtctgtttgt ccttctgacc acagccaatt 180
tcccagatgt gatgatgcc tcctactccc ggaaccctg gtccctgcgtc ttcttcatcg 240

```

1161

```

tgtacctctc catcgagctg tatttcatca tgaacctgct tctggctgtg gtgttcgaca 300
ccttcaatga cattgagaaa cgcaagttca agtcttttgc actgcacaag cgaaccgcta 360
tccagcatgc ctaccgcctg ctcatcagcc agaggaggcc tgccggcatc tcctacaggc 420
agtttgaagg cctcatgcgc ttctacaagc cccggatgag tgccaggagg cgctatctta 480
ccttcaaggc cctgaatcag aacaacacac ccctgctcag cctaaaggac ttttacgata 540
tctacgaagt tgctgctttg aagtgggaagg ccaagaaaaa cagagagcac tggtttgatg 600
agcttcccag gacggcgctc ctcatcttca aaggatttaa tatccttggtg aagtccaagg 660
ccttccagta tttcatgtac ttggtgggtg cagtcaacgg ggtctggatc ctctgggaga 720
catttatgct gaaagggtggg aacttcttct ccaagcacgt gccctggagt tacctcgtct 780
ttctaactat ctatgggggtg gagctgttcc tgaagggttg cggcctgggc cctgtggagt 840
acttgtcttc cggatggaac ttgtttgact tctccgtgac agtgttcgcc ttctggggac 900
tgctggcgct ggccctcaac atggagccct tctatttcat cgtggctctg cgccccctcc 960
agctgctgag gttgtttaag ttgaaggagc gctaccgcaa cgtgctggac accatgttcg 1020
agctgctgcc ccggatggcc agcctgggccc tcaccctgct catcttttac tactccttcg 1080
ccatcgtggg catggagttc ttctgcggga tcgtcttccc caactgctgc aacacgagta 1140
cagtggcaga tgccctaccg tggcgcaacc acaccgtggg caacaggacc gtgggtggagg 1200
aaggctacta ttatctcaat aattttgaca acatcctcaa cagctttgtg accctgtttg 1260
agctcacagt tgtcaacaac tgggtacatca tcatgggaagg cgtcacctct cagacctccc 1320
actggagccg cctctacttc atgacctttt acattgtgac catggtgggtg atgacgatca 1380
ttgtcgcctt tatcctcgag gccttcgtct tccgaatgaa ctacagccgc aagaaccagg 1440
actcgggaagt tgatgggtggc atcacccctt agaaggaaaat ctccaaagaa gagctgggtt 1500
ccgtcctgga gctctaccgg gaggcacggg gggcctcctc ggatgtcacc aggctgctgg 1560
agacctctc ccagatggag agataccagc aacattccat ggtgtttctg ggacggcgat 1620
caaggaccaaa gagcgacctg agcctgaaga tgtaccagga ggagatccag gagtgggtatg 1680
aggagcatgc cagggagcaa gagcagcagc gacaactcag cagcagtgca gcccccgccg 1740
cccagcagcc cccaggcagc cgccagcgct cccagaccgt tacctagccc agcgccccgaa 1800
agccgtctct tctatgcaat aacacaaatag tattactcta aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaagggggg gg                                     1882

```

<210> 1864

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 1864

```

gcttggcaga ggcaaccaag aaagaaatta cattctttca aacacatcca tatttcagag 60
ttctcctgga ggaggggtca gccacggttc cccgactggc agaaagactt accactgaac 120
tcatcatgca tatccaaaaa tcgtccccgt tgttagaagg acaaataagg gagagccacc 180
agaaggcgac cgaggagctg cggcgtttgc gggctgacat cccagccag gagggcgaca 240
agatgttctt tctaattgag aaaatcaaga tgtttaatca ggacatcgaa aagttagtag 300
aaggagaaga agttgtaagg gagaatgaga cccgtttata caacaaaatc agagaggatt 360
ttaaaaactg ggtaggcata cttgcaacta atacccaaaa agttaaaaat attatccacg 420
aagaagtga aaaatatgaa aagcagtatc gaggcaagga gcttctggga tttgtcaact 480
acaagacatt tgagatcatc gtgcatcagt acatycagca gctggtggag cccgccctta 540
gcatgctcca gaaagccatg gaaattatcc agcaagcttt cattaacgtg gccaaaaaac 600
atthttggcg atthtttcaac ctttaacaaa ctgttcagag cacgattgaa gacataaaaag 660
tgaaaacacac agcaaaggca gaaaacatga tccaacttca gttcagaatg gagcagatgg 720
ttttttgtca agatcagatt tacagtgttg ttctgaagaa agtccgagaa gagattttta 780
accctctggg gacgccttca cagaatatga agttgaactc tcattttccc agtaatgagt 840
cttcggtttc ctcttttact gaaataggca tccacctgaa tgctacttc ttggaaaacca 900
gcaaacgtct cgccaaccag atcccattha taattcagta ttttatgctc cgagagaatg 960

```

1162

```

gtgactcctt gcagaaagcc atgatgcaga tactacagga aaaaaatcgc tattcctggc 1020
tgcttcaaga gcagagtga accgctacca agagaagaat ccttaaggag agaatttacc 1080
ggctcactca ggcgcgacac gcactctgtc aattctccag caaagagatc cactgaaggg 1140
cggcgatgcc tgtggttgtt ttcttgtgcg tactcattca ttctaagggg agtcggtgca 1200
ggatgccgct tctgcttttg ggccaaactc ttctgtcact atcagtgtcc atctctactg 1260
tactccctca gcacagagc atgcatcagg ggtccacaca ggctcagctc tctccaccac 1320
ccagctcttc cctgaccttc acgaagggat ggctctccag tccttgggtc ccgtagcaca 1380
cagttacagt gtccctaagat actgctatca ttcttcgcta atttgtattt gtattccctt 1440
ccccctacaa gattatgaga ccccagaggg ggaagggtctg ggtcaaattc ttcttttgta 1500
tgtccagtct cctgcacagc acctgcagca ttgtaactgc ttaataaatg acatctcact 1560
gaacgaatga gtgctgtgta agtgatggag atacctgagg ctattgctca agcccaggcc 1620
ttggacattt agtgactgtt agccggtccc ttccagatcc agtggccatg cccctgctt 1680
cccatgggtc actgtcattg tgtttcccag cctctccact ccccgccag aaaggagcct 1740
gagtgaattt cttttcttct tgtttccctg attatgatga gcttccattg ttctgttaag 1800
tcttgaagag gaatttaata aagcaaagaa actttttaaa aaaaaagagt acttctagag 1860
cggccggggg cccatcggat ttccaaccg ggtgggggta ccaggttaag tggtaaccca 1920
aattcg 1926

```

<210> 1865

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 1865

```

ctcgtgcaan nttgagcagt gttaggattt agaggagtct gcatagcaga taaagggaga 60
ggtgttagca aagagtatct gtgaggatga tactcttggg attgcagggtc ataagactgg 120
gaaagtaggt aaatgctccc tgaatggggc ttatacttta tcctataggc agtgggaagc 180
cttaggtaag aatacagtga tacgaaagtt ttgcattcac tttagtaatg gtgaaaaact 240
ggggaacagt ctattagggtg gcagtctttg ggctggaata tcccaactga tttctggttt 300
tattttctaa aattgttgcc ttggacctt cctattttta taaccagaca cagaaaaatca 360
ataaaaagttt gagcccagtt tatagactat tgccagcagt agttcagggtt ttaaaaaaat 420
gatgagggat taatctaggg gcatgaagga gaaaggatag attttttatt tatgtctata 480
tataaataga catttatatt tacaaagggt gacttagcag gccttagtga ttgcttagca 540
agattagggg acagaaca 558

```

<210> 1866

<211> 349

<212> DNA

<213> Homo sapiens

<220>

1163

<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 1866
aattcggcac aggccttgatc ttcttctggg ggtagggag aaatctgtct ccttattgct 60
ggttctctta ccaaaatgct ttataaaga atgaccggg gacatttatt caccaaagga 120
attaatatac tgagtcaaag attaacaatg ctatactata gagtaatagg tcatrtatag 180
cctcrattga gttttttatg acaatatatt aacatacctc tctctctaca tatgaaatac 240
catgaaagtg aractcaaaa tgacacagag ggaaagttag agggaaaatg gaantaattt 300
cgggtacatct ttatgggttt taaaggagta ggaaaataag gtggaaata 349

<210> 1867
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<400> 1867
gaattcggca gagggacatt tatttccttt ggagtcttat tcttttaagt acttctttaa 60
acataaccat caccatcacc agaatttttt aaacatgaga ataagacaga cagaactttt 120
ctttggtagt gttaacacaa aagggtgtctg atcttcatac aagcaatctt tgctcacata 180
catcaaaatg gaatgacaca aggaaagaac cattttgcaa aaggaaacaa gacaagctgc 240
cgtcagctag atacgttttcg attgttcagg aaagtctgta caggaacttt gattggcatc 300
ctgcttgtct accttctttc ctacttttaa gtggtagctc tgatcattgt tgtcagtgtt 360
ttctgacccc tcagatctgg tctttgccta tcatgtctga tgtaggcact tggaccaatt 420
cacctgcaaa tcaaggtaat cgaaccaagt gcctacatca gacatgatag gcaaagacgt 480
cgagcggccc gnaaatttag tagtagtagt agtcggaccc cggggaaatt ccggga 536

<210> 1868
<211> 853
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (816)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (839)

1164

<223> n equals a,t,g, or c

<400> 1868

```

cgccaggcca ggcacctagg ccaggggagc ggagacctcg tgggagcggg caggggggacc 60
tttcccctct cccgggcttc caccaggcg cctccccgct gtgaaacgcc gccgcccagg 120
aaaaactgca tagaaaatct aatggatgaa gatgagaaaag acagagccaa gagagcttct 180
cgaaacaagt ctgagaaaga agcgtcggga ccagttcaat gttctcatca aagagctcag 240
ttccatgctc cctggcaaca cgcggaaaat ggacaaaacc accgtgttgg aaaaggtcat 300
cggatttttg cagaaacaca atgaagtctc agcgcaaacg gaaatctgtg acattcagca 360
agactggrag ccttcattcc tcagtaatga agaattcacc cagctgatgt tggagagcca 420
tttcagagac tgtgaagaat ccaggtgcca tgtcttagtg gccaggatgt tccctttcta 480
aaatgaggac agagcccagg agataaccca tcatgtccct aggggaactgc taatgccctc 540
cagatgtgac tcccgctcttc ttccctcttc tctctaagag gcacaaaacc agactccagg 600
aggactcaca tagctktgaa gtttgaaaaa acaaaattga cctggctgaa aaaacaaaat 660
tgacctgggc tgcagacmag ccaagctggt aaaagtatca rctgggcaaa gacttgkgyy 720
taccagcatt gggagcagtt gcmcttcaaa aggagccaaa tgcctgkgyy ctgcggaawa 780
ggacttgggg attttgaatt watycaaaag catttntttc tttttaggcc cagaggttnt 840
tcccagggac aca 853

```

<210> 1869

<211> 1246

<212> DNA

<213> Homo sapiens

<400> 1869

```

agtttcacgc ctgcaaacac aagcattctg ttgatcaacg gaaatatttt gatgtgccat 60
ttcttgtcta aacaagtttc atatacagca ccgagggggc cagcagaggc agaggcccag 120
acagaagggtg aacatagcct tgcagggaga catatgccag gcaggatgac cattgggatt 180
gcatcaagta ttaatcagtt acttaagggc ttccctgtcag acagttgaag ttcacattcc 240
ttttactttt cttaattagt ccactaggat ggtatgcctg ttttcaactt aacacatgca 300
tacttgtaaa tatttttagta tgctacagta atttgtcata tctttaatat ttattgtttg 360
taaagcagta aacattttctg tatttttagaa gtcattggagt aaaatcaaat atttatgata 420
aataattgga agtatgtttt agtttgaaga ttgtcctttt tcctatcttg ctgcaaggaa 480
aaatggactt ctgattaggt tttacaattg tgaactttta tgtaaagtgt aagtgtcttc 540
gaggagacca aactattatt aatatataaa atggccttgc ccttaaggag caaattaaat 600
ctcatggaga ttagactcaa aaggcaataa ataatcgagg gtttatgcaa tgaaatagaa 660
tttcagaaga gtttgatctt caaagattgt ccttcactct cagaaacagg caagtttctt 720
aaaagccctt atagtcgtgt ttttatttta aaaatcgtag cacttttatt ttgaagttta 780
aaaagcccat aaacttaatg agtctttata atcagacaca tggaaatata gaaaaccaa 840
gactgatctt agaatataga gtagagagac atgtttgtta ttctccacta gtgacttttag 900
tattttgtta tgtgatgttt tttaggtgca ccttttctca tgactccttt tactttatct 960
aatgtcttcc tctttaaagt gtgaccaga gaccagtagc atcagcatca cctgagacct 1020
gtgaacactg aagctccagc tcagacatgt tggggaccat tttaataaga tacctagctg 1080
attttttgca cagcaaactt tgaaaacccc tgggtctaagg ggtagtattt gtatcactta 1140
tggaatataa tctcagggaa attaaatctg ctcaattgac atttgtggtg tttcattttt 1200
taaattctct tgagtaactt ctgtagccct ttccagtgtg tcaggt 1246

```

<210> 1870

<211> 133

<212> DNA

<213> Homo sapiens

1165

<400> 1870

```
ctactctgtg tgtgggttct tggcaagctg ccatgtcttt ggggatcata gaaattattg 60
atgacacaga acactcatat gcccttagcc tgtacagctg attcaacatg ggaacagaaa 120
cactgtctag ggg                                     133
```

<210> 1871

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<400> 1871

```
gcaggacagg aaaggtgaca gagnaagact ctatctcaaa aaaaawkaga ctatcttggt 60
cttaatcctc ttcaattctt cctttttatt cttttctccc tggctccttt gtagtttaat 120
agttatttaa aatcagggtg agcattttta tgtttcagta taacacccaaa atgatctcag 180
ctaagttgct tttgttgctt cttttcatat gaagtttttt ccctatcctg tgaatcagcc 240
tttaatccaa aaatgacata aagagaagag caaggactga gccttaagta tgcctagaat 300
gttgaggagg ctgaggacag tgaagaagag atgaaataac cacaaccagt agcttgggaa 360
ccaggataat gtcataagac tcaaatggag ggaattaata tcaagggaag attaanaaaa 420
aa                                     422
```

<210> 1872

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<400> 1872

```
gatttttttt ttaagaggac ttttaagatc atgatatcta attttaattg tatttacaga 60
ggcttcaaag agtctttgat ttcttgcaact ttgttaaggc tttcttattc cttctcacat 120
cctagaaccg ggttaccctt ccgtgaggca gatcccttgc aggtggccat cactgtggtg 180
gccagcagtg cttccagact cctgcagtc cgggttcctt tctgaaatgg atgtgtattt 240
```

1166

```

ccaaattcgg atggaagagg ctggattaaa gatagaagag aatgtcctaa gtagaagaga 300
aatatgttct taaattttaa atctctgaat tttctcctta cactggggaa ggtgtaggaa 360
tcatgtaatt gccgcctact ccggcatttg cagtagtggg gagaagtctc tagaaccata 420
ttagacttaa tagataggac actcatgttt ttgtttggtt gggggtagca ttttaaaaga 480
ttattatcat agtcttttatt attaattatt ttggaggaca ggaaagcatt taccttctat 540
ctactttgca aactccatct gtgccataaa tcattatgga tgttgggktg ctatactctg 600
stttttaaat aatttgggca ngaccngga 629

```

<210> 1873

<211> 1407

<212> DNA

<213> Homo sapiens

<400> 1873

```

ctcaccctgt atgacatgtg caaggctgtc agcagggaca tcgtgttgga ggagatcaag 60
ctcattagca agactggtgg tcagcggggg gacttccatc gggttagca cctgcccttc 120
tcacccatgg cccaccacagg cctggagctg ggatgcaatg taggctgagg gaaagacgtc 180
aggttccttt aatcacagtc actgtttgtt taccttgagc agtaaaccgc aagtcagcct 240
gctctactac taacaaacag gcctgctgct agatgatctc taatgaccaa tggggcttcc 300
tttctatagg gaggatacca gcaggccctt aagccttcca ggacactaag gtcgtgggag 360
cgggactgca acaagcaatg ccagataact gagaaatcat gttctttgtg gactatttca 420
gacaaccagg ttccgacagt ccagcccaga acttttccct ctcattttgg gttttctctt 480
ctcctgcttt cctggggaga gattaagcgc tcattaagca gaggagccca ctttgaggag 540
agcaaagcac aagcttgcct gaagaatgga tcccaacttc tccccggcag ctctgcctcc 600
ctaagtctgt gaagccgcag ccctgccctg tcctgtcctg tcctgacttc atctctcctt 660
ctgcccacgt ctgtgtccca tcagacttgc agcctttcag cttaacagtt gcccggtcct 720
gctggccccct tttcctctgg ccccccctct ctgaaacagg atgtgcacac atggccatag 780
ccctaaggac tcctgccaga ccacacagcc cacacctggc cctgttcacg gctgttccac 840
ccacccctct ttattctgga gcatatcagg gaaagaaaag ttgatgatag attgccttca 900
ccctcacagc gcacaaataa agctacgatg ccaactttgc agatgcaaga atgaagacac 960
tgtgtgggta gggcactgag ctgctgcagt ttcacaggga aggctgcacc tatcaatcaa 1020
tcaatcaatc ctatcccaag acacagttcc ctgaggggaa aagaggaggg acctggaaaag 1080
gcctaagggt gtactctctg tatagccccg ctatgggaaa ataaagtgga gtagggggca 1140
tagaaatgcw ccattctaagg gaaatctttt gtcagggtgtt ggccaggggt gttcaaagct 1200
cattgcttgc attaccagct attagagaga tcagagaggg caattaatta gaggctcctg 1260
gttctcacat cccaaacaca cacagttctg gcctgctggg ctctctaact tggatgtctt 1320
tgagtcctca gtgggtcccc ctgcctgcct cccctctgcc ctatgccaaag gtgtgctggc 1380
aaatattaaa caaccagctc tctggaa 1407

```

<210> 1874

<211> 707

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1167

<222> (676)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (706)

<223> n equals a,t,g, or c

<400> 1874

```

ccgtctcaaa aaataaataa ataaataaaa aataaaacaa ataaataaaa gctaaagcat 60
tctaggaatt acatgtctgg gagctacttt gctgaatctc ttggaagttg ttaaggaaaag 120
gcatctgaga tataccagat cagaccttca tcttctgagc ttcccacttg taaactgaaa 180
ttttaaatta cctggaatag gcctcccttc tcttaactcc caatttgaaag gctgcgattt 240
taaattagat gagaatttac ttaactctat ttgatacata tccttatgaa tgaacatttg 300
ttgactgtct actgaatgtg acaggtattg ttctaagcac tttatttgta atgacttact 360
tttacaaaac acccctatga gtaatgttct attgtccctt tatttacagt tgaggaaaact 420
gggtacagag rgattaagta actagtctga tgtcacagggt agtattcagc tgagccygca 480
ctcataaata tgatactgtc ctgcttctcc cttgctaata taggcaataa agagctttct 540
gaaggggaag aaatattatt attaaactga tttaatgaat tactataatt gcagtttcaa 600
taattagttt tgtaaaaatgc aactgggtat agcagttttt tgaagttttc taattttntc 660
cttctgtcac tttggntctg gtangtttgc cttttcacca ttgctna 707

```

<210> 1875

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 1875

```

gcaaaaataa aggggctaca gaaacactca tttttatgct gttccctctt gggcttcatg 60
caaagacaat tctgtgtaaa tgtacagttg actctgattt ggaaatatga aaatcagttc 120
atccttggtta taataaaattt ttttacaatt gtaattatat tgatgttcat attgtgtaaa 180
ataactcatt taataaaata gtactttgat ttacgacawm aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa naaaa 265

```

<210> 1876

<211> 513

<212> DNA

<213> Homo sapiens

<400> 1876

```

gcgggttcct tctactttctt ttcttttctt tctggtgacc ctggcagtggt aaaactgccca 60

```


1168

```

cctcttttagg tttctgtaga gccaaaaata atctccta atgtcttctga tgtttgatag 120
gtattccctc ggaagtttagg aattcccttt ctctccatat tgttgcatgg gcatggagag 180
ttaggtaagc atacttagag tctttatata tatttaccct ttttccttct cctaattcta 240
gtgtataacg gccctgctt ttcctaggat gtctctccct aacaaaggag tggggctttc 300
aggcataatt agaaagacat gtgaaaagag taaagttcgc cagtcacaam ttagtggctg 360
ggagaagtat wtagtgactr cctgtcctag gacccctcag atagtgcag atctggagga 420
cagttgtcca ggacaggaga gtaagaytga gacagctgcg ccagtgtcca ggagacagtt 480
aacctcctgg ccctcaatga tcaagcatac ccg 513

```

<210> 1877

<211> 650

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 1877

```

ctttggagga gagactccta ggatggccca caacctgctg ctgcctgtag cagagctaga 60
agggaaggag tctgccagct ctccacagc atccccacca tcctcctcca ctgccatctt 120
tcagccctct gaaaccgtgc tccttgaac gcaaagggcc gaggagcatc tggttttcat 180
ggcaaagctc tactccagag ctctttaac atctgcta ataaagtgaat aaatttttct 240
agaaaatggc aaagatgact tccagggtga tattgctctc ttacgggtgtt ggggatgcca 300
gaacaccact tggttttatt tttctaagt catgtgatgt gatagagtgt gtggggctct 360
gtgtccttcc ctgggagctg gcattccagc gggccctct ctctaccttt gtggggggaa 420
ggaggcaaga gagaaattcc ttcttcccag ccagagaggg cagaagcaga ccgtagccca 480
ttggccttat gtgcgtgtgt gcgtgcgagt gtgtcactgc tgggtgggccg gagtgatgtg 540
gtgggaggga agccgggaat gtatcctttt cagacaaaat taaatatttt gaaatgagaa 600
aaaaaaaaaa aaaaaactcg ngggggggcc cggtaaccca attcgcccta 650

```

<210> 1878

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

1169

<400> 1878

```
ctcagngccc gcccatact tgctgagccn gaggaaacca ggatgctgca ggagccagag 60
tctgcactat caagagctgc aggagggctt ctctgagttg gaagagggtc ctggtttgga 120
gaatggtccc acggtggcca gcacaggagc aaatganagg gtgggacagc gggaacagac 180
acgtgctgct ctccttcac cctgagagaa tgctctccag acattcctgc atcccccccc 240
accaaactca gaagcttgct gggatccttc gagtccaata ggaagtccgg gagkgccttc 300
agttttcact caaagcaggc ccttttttcg ttccttcctt gttaggggaa gatacacctg 360
gacgagaata taccctcacc tcaccacctt gaaaagctgc tttctccctt scatccatat 420
cctctcttcc tgtcacctcc ccatacagct tcacatttgc ctcacgcac tttctcttcc 480
tgtccacctt tcataatccc atccactcca aatcccggac cctgcacacg ccaactccct 540
gaatccaatt caggagtgcc ccagttcccc tttcgatcca tctcctttct actgtagcgg 600
agactacaag tcccaggatg ccccgctagc ccgtgaccgg ctaggaaata aagagccttc 660
tctccgcggt aaaaaaaaaa aaaaaaaaaa aaaactcgag gggggggccc gtaccaaat 720
c 721
```

<210> 1879

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<400> 1879

```
ctcgcctgca ctgctctccc tncgctgtgg ggaagcgaca acgtcccgat aacttgcaga 60
ctgtggcgca actggtcttg gtagcggagg cayycgaatg ctgcccgggt gagaaacctg 120
gcaaagaaaa cggctctcgac aatgagtagg ccacccatca ctactaacta cagatgactt 180
gccatttcat ttacaaagat gtcttctgct gctgaaaatg gagaggcagc acctggaaaa 240
```

1170

```

caaaatgaag aaaaaaccta taaaaagact gcatcatctg ctattaaagg tgctattcag 300
ctgggwatag gatacacagt gggtaatctc acttccaagc cagaaccgag atgttcttat 360
gcaagacttt tatgtggtgg aaagtgtgtt cctaccacagc gaagggaagc aatcctgacc 420
ccagcacatc actacccaag acttttagatt taaggacata cgctccatta gcantccggt 480
atttcagaga acttttttggg tatcaagcct gatggattac ttgnattcca tcctgnagtg 540
aaacctctna tagaactggg ctaa                                     564

```

<210> 1880

<211> 277

<212> DNA

<213> Homo sapiens

<400> 1880

```

tttttttttt tttttttttt tttttttttt tttttttttt ttttctaagg cccaaaaatc 60
tatraaacct tgattatttg ttagttttgc aattcaaaac agctaattgc kggytatctc 120
tcaaagtaag tatttttaaac agcctgtaag atactgtata tgcgctgctg tagataccgg 180
aatgaatttt ctgtacatgt ttggttaatt ttttttgtac atgatttttg tatgtttcct 240
tttcaataaa atcagattgg aacagtgaac aaaaaaaa                277

```

<210> 1881

<211> 2522

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2517)

<223> n equals a,t,g, or c

<400> 1881

```

gccggccag cgcccgccac cggccmgcgg tgccctccaga ggacctgggc agacaagatg 60
tgaaatggag aagtatctga cacctcagct tcctccagtt cctataattc cagagcataa 120
aaagtataga cgagacagtg cctcagtcgt agaccagttc ttacttgaca ctgaaggggt 180
accttacagt atcaacatga acgtcttcct ccctgacatc actcacctga gaactggcct 240
ctacaaatcc cagagaccgt gcgtaacaca catcaagaca gaacctgttg ccattttcag 300
ccaccagagt gaaacgactg cccctcctcc ggccccgacc caggccctcc ctgagttcac 360
cagtatatcc agctcacacc agaccgcagc tccagaggtg aacaatatct tcatacaaca 420
agaacttcct acaccagatc ttcattcttc tgtccctacc cagcagggcc acctgtacca 480
gctactgaat acaccggatc tagatatgcc cagttctaca aatcagacag cagcaatgga 540
cactcttaat gtttctatgt cagctgccat ggcaggcctt aacacacaca cctctgctgt 600
tccgcagact gcagtgaac aattccaggg catgccccct tgcacataca caatgccaag 660

```

1171

```

tcagttttctt ccacaacagg ccacttactt tcccccgtea ccaccaagct cagagcctgg 720
aagtccagat agacaagcag agatgctcca gaattttaacc ccacctccat cctatgctgc 780
tacaattgct tctaaactgg caattcacaa tccaaattta cccaccaccc tgccagttaa 840
ctcacaaaaac atccaacctg tcagatacaa tagaaggagt aacccccgatt tggagaaacg 900
acgcatccac tactgcgatt accctgggtg cacaaaagtt tataccaagt cttctcattt 960
aaaagctcac ctgaggactc aacttggtga aaagccatac aagtgtacct gggaaggctg 1020
cgactggagg ttcgcgcgat cggatgagct gacccgccac taccggaagc acacaggcgc 1080
caagcccttc cagtgcgggg tgtgcaaccg cagcttctcg cgctctgacc acctggccct 1140
gcatatgaag aggaccaga actgagcact gcccggtgta cccgttccag gtcccctggg 1200
ctccctcaaa tgacagacct aactattcct gtgtaaaaaac aacaaaaaca aaaaaaaca 1260
agaaaaccac aactaaaact ggaaatgtat attttgtata tttgagaaaa cagggaatac 1320
attgtattaa taccaaagtg tttgggtcatt ttaagaatct ggaatgcttg ctgtaatgta 1380
tatggcttta ctcaagcara tctcatctca tgacaggcag ccacgtctca acatgggtaa 1440
gggggkggggg tggaggggar tgtgtgcagc gtttttacct aggaccatc atttaatgtg 1500
acagtgttca gtaaacaaat cagttggcag gcaccagaag aagaatggat tgtatgtcaa 1560
gattttactt ggcattgagt agtttttttc aatagtaggt aattccttag agatacagta 1620
tacctggcaa ttcacaaata gccattgaac aaatgtgtgg gtttttaaaa attatataca 1680
tatatgagtt gcctatatatt gctattcaaa attttgtaaa tatgcaaatc agctttatag 1740
gtttattaca agtttttttag gattcttttg gggaaagagtc ataattcttt tgaaaaatac 1800
catgaatata cttacagtta ggatttgtgg taaggtagct ctcaacatta ccaaaatcat 1860
ttcttttagag ggaaggaata atcattcaaa tgaactttta aaaagcaa at tcatgcact 1920
gattaaaaata ggattatatt aartacaaaa ggcattttat atgaattata aactgaagag 1980
cttaaaagata gttacaaaat acaaaaagttc aacctcttac aataagctaa acgcaatgtc 2040
attttttaaaa agaaggactt aggggtgtcgt tttcacatat gacaatgttg catttatgat 2100
gcagtttcaa gtacacaaac gttgaattga tgatgcagtt ttcatatatc gagatgttcg 2160
ctcgtgcagt actgttgggt aaatgacaat ttatgtggat tttgcatgta atacacagtg 2220
agacacagta attttatcta aattacagtg cagtttagtt aatctattaa tactgactca 2280
gtgtctgcct ttaaatataa atgakatgtt gaaaacttaa ggaagcaa at gctacatata 2340
tgcaatataa aatagtaatg tgatgctgat gctgttaacc rragggcaga ataaataagc 2400
aaaatgccaa aaggggtctn aattgaartg aaaatgtaat tttgttttta aaatattgtt 2460
tatcttttat ttaggggggg tgggtaatta ttagttaagt tttttttaan aaaaaanaaa 2520
tt 2522

```

<210> 1882

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

1172

<223> n equals a,t,g, or c

<400> 1882

```

nnatcaaccc tcactaaagg gaacaaaagc tggagctcca cgcggtggc gncgcgtcta 60
gaactagtgg atcccccggg ctgcaggaat tcggcacgag cccacctcca tcctatgctg 120
ctacaattgy ttctaaactg gcaattcaca atccaawttt acccaccacc tgccagttaa 180
ctcmcaaaac wtccaacctg tcagatacaa tagaaggagt aaccccgatt tggagaaacg 240
acgcatccac tactgcgatt accctggttg cacaaaagtt tataccaagt cttctcattt 300
aaaagctcac ctgaggactc aactgggtga agttatcagt accagactat tttgcttcaa 360
tctgcaaaag gaagggtgtg gaagggtgaa agccatacaa gtgtacctgg gaaggctgcg 420
actggagggtt cgcgcgatcg gatgagctga cccgcg                                     455

```

<210> 1883

<211> 858

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (856)

<223> n equals a,t,g, or c

<400> 1883

```

ggttctgccc ccactgctta taatgctggt gatctacatt aagatcttcc tgggtggcctg 60
caggcagctt cagcgcactg agctgatgga ccactcgagg accaccctcc agcggggagat 120
ccatgcagcc aagtcactgg ccatgattgt ggggattttt gccctgtgct ggttacctgt 180
gcatgctggt aactgtgtca ctctttttcca gccagctcag ggtaaaaaata agcccaagtg 240
ggcaatgaat atggccattc ttctgtcaca tgccaattca gttgtcaatc ccattgtcta 300
tgcttaccgg aaccgagact tccgctacac ttttcacaaa attatctcca ggtatcttct 360
ctgccaaagca gatgtcaaga gtgggaatgg tcaggctggg gtacagcctg ctctcggtgt 420
gggcctatga tctaggctct cgctctctcc aggagaagat acaaatccac aagaaacaaa 480
gaggacacgg ctggttttca ttgtgaaaga tagctacacc tcacaaggaa atggactgcc 540
tctcttgagc acttccctgg agctaccacg tatctagcta atatgtatgt gtcagtagta 600
ggctccaagg attgacaaat atatttatga tctatcagc tgcttttact gtgtggatta 660
tgccaacagc ttgaatggat tctaacagac tcttttgttt ttaaaagtct gccttgttta 720
tgggtgaaaa ttactgaaac tattttactg tgaaacagtg tgaactatta taatgcaaat 780
actttttaac ttagaggcaa tggaaaaata aaagttgact gtactaaaaa tgtaaaaaaa 840
aaaaaaaaaa aaattnct                                     858

```

<210> 1884

<211> 1419

<212> DNA

<213> Homo sapiens

<400> 1884

```

gtttccagta gcttggaag tagagatgac taatgtttta gccttttctt ggagaaaagg 60
aagaactctt cttgaatatt ttcacagatg attgtgattg ctttaaatga cctctgtggc 120
aatttaaatt agatggattt aatctcagta atgtgctggg cgcataaatg tcatgtttta 180
ataggaaaag ttacttgtaa atcttttagac ctttggtgtc acttaggctg gggagtcact 240
accctatttg gcatcttact agttgggggg acccttttccg tgtacagtga tgggactttt 300
gtgaccttta ctctcactat gcaatagagg gtttcatgta gttaatctga catgtcaaaa 360

```

1173

```

ttgggaagac tgtaaccttt tttttttttt ttttaagattt ctcttttttg tgtccctcaa 420
tacttagcag atgttcattt ggtggaaatt cttattactt acatgaatga gtttgaattt 480
agtggcaagg aagaaaaaaaa aaactcaa atttgtttta aaagaagaaa acttgcaaag 540
tacataagta ttttttaaaa atcaatcgaa cagaaaggaa tgcattgctgt ttttcaatgg 600
cttagacatg ctttttattc actgactagt attcactttt ttacaacttg tatcaaaaca 660
aatgatcttt gtttttgtca caggcaaaaa caggttgaca ctggtgggtt ggctttatta 720
attaattttt tttctattag gttttcttta ataattgtaa atttctaaat tatagcatat 780
gttttagtta attctgaaat cagttacttc atttgtaa attatccctca tatcatgaat 840
attgtttttt aaatgttcta tacaattttg catcacttct tttcttacag cttttgcagt 900
taatataattc taaacttgaa aatgtgggat caatcaataa tagaagtatc actggaggat 960
ttatttagct ttgtatttct taatttttagt cctagctact aaagtatgta agccttaaa 1020
tttaaaatgt ttttcttaaa ttagctttat acacaaacat tttcatttac tttatgaaat 1080
gggaggagat agtccactgt gcttatgttt ttttgtttaa tttctatatt ctgaagcagt 1140
gcagatatag ggtatgctaa tcaagtggac aaggtggaac atgtacaata taaggagaag 1200
ctgtaaaaat cacagtataa aattatgaag tttggtaact gtaaaatgta ctgtatttat 1260
atgtaactct cattctaaaa gttgccacaa aagctgaatt ggaagcttca tgtctgcatg 1320
aaatttccta tattttta atgtatgatg aaattaattt ttcttgaata ttaaagtctg 1380
ccaattgcta tgaaaaaaaa aaaaaaaaaa aaaactcga 1419

```

<210> 1885

<211> 2013

<212> DNA

<213> Homo sapiens

<400> 1885

```

attcggcagc acggggcaaaa gtctctacca cacctactca actctgtcac gctagcacaa 60
aacagccaca cacaaatata ttaaaaaatg ggtataactg tgttccaata aaactctatt 120
agcaacaggc agtgggcccag atstggcact gactgcagtt tactaactat cccctgatca 180
agaatgtcca acaatagctg aaagttactt gagaaagtca gcaactgtagg aggaagaaac 240
taacaccaaaa acacaagccg gtagttcttg ggaaatgctg gcagaccaag ggcgggacct 300
cttgcccaga ataattctct tctcctacta aggaacctat aggttctactg aagtaatcca 360
ttactttgaa tcaactctct ctttgcccca cttttaaaaca caaatcccca tccctaatag 420
ttactgggtg acagatggac tcatcccttt cttatccgag aagccccatc acatgctatg 480
tcctatcaca tgctatacca gaagctaggg ctgcagaggt ggatgacgcc ccagatccc 540
tgccccctag gggcttaaga gtctagcagg ggcacctgac ccaagtaagt acaatgcagg 600
gtaaggctgg ctaaaagagca cgtgaaaagg agctgggaac acagctggtc agcagagctt 660
cagggaggggc tgaaaggacag gctgcacacg aggcactcag aaaacagcag tgaaacagaa 720
ggcaggcagc aacggcagtg gtactggacc tggggaacac caagttcaag ctctatatac 780
aacgaggaca aaaatgaacc aggtccctg aaagcaggga atctaacctg tgctacggcg 840
ccttcccagt ccacgagggc gtgagagtac atacacatgc aagtgcactc cagcgctcac 900
ccaagcaaca cccttgagga aacacggact ccaggcccaa atccagcctg agacctcaa 960
agggcagatc cgctaacctc aagttttcag aagatctgaa cccactgggg gctcctgctc 1020
ctctgcctgc cccatgccag actaggattc cagtgcata agcgccctct acagactcag 1080
aaggacagag aaggttctgc tggaagtggg ctccctcagca aaccagcaga taggggttcc 1140
tttgatattt ataccccagg ttttttact ctcacgtgac atctatgtgg ggccaatgaa 1200
gccaattctt cttttgtaca tatgcagtcc tgtaagaatg cattcaaacy ggatccgcta 1260
attaggaatt ttctcctgga attctcaaca gtctatgggg ccagaagctt tccacaaacc 1320
agtgaagggt gcagcaaaga aagcctctta gacgaggagc tggcagcagc tgctatctag 1380
atagacagca aaaaccaacc actaattcag caaacacaa ctcataccta accgcttccc 1440
tttaaatggc cttcgggtgtg tgcgcacatg ggcacgtgcg gggagaacca tacttattcc 1500
cctgttcccc gcctaccacc tctgctcccc cttctcttct ctaccattta actgtctcct 1560

```

1174

```

ctgctttgtt tcttatcact gctgctggtg tctagagcca gccagcagta cctggcagac 1620
atcgcgaccc tgcgggcagc gcttaggact gcacatttac atttcccaaa tgatctgggt 1680
agatggggac aggtgaagac ttggggaaac ggaaatatac gaatgacatg agacatgcat 1740
atctagtgtc aatccattcg actgggcaca ggacagcaga ctgctgacag tgctatgtaa 1800
gattatgagt gatccctccct ctattttgca aacagtctgt aagtaactga taaaacttta 1860
aaatatgcaa attttaaaat tatatagttt gatttactca tcaaattatc atgtatgctg 1920
ttattttaagt atgaataaaag gcttttttaa attgggaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaagggggggg ggg                                     2013

```

<210> 1886

<211> 1893

<212> DNA

<213> Homo sapiens

<400> 1886

```

gccccgcgct ccgcggacgc gtgggtcgac ccacgcgtcc gaaaaaacat ggttttctcct 60
ctctctcctg tcttcttact ctctatccca tttgatgtag tgatttttaa atgcttttgt 120
aagttaattc ttaacacaaa agagacattg taatgaggca caccactaaa gtgagcatgc 180
ccaattaaaa ccagtgtaat ataggataag aaaatctgat ttttcaaaaa agatactcta 240
cataaagaat ccttcatata aaaagttctt tctttagta catttaaagt ttttaattcac 300
tcatgtataa ctgagagttc ctttgagccc tttttaggca gggaggcatg tctgtcatct 360
agcgtgtggc ccagtaagtg attattacat tggaatcagt ttttcagtct tttaaaataa 420
attctatgcc ataagaataa aagataaaga gcaaaattaa tgtaactat ttttagctta 480
ttataactat gtcaacaagt gtttattaat acctattatg ggaaagtcac tgtggttggc 540
attgaaaatt acatcatctt taaagcagta tttgtcccca gatggactca tcaactagcaa 600
agactagggt cattggaagg catagggtga gagaatggga agatgragtg gaggcgggtt 660
gttaaaagtgc tgtcagttag tgattttgtc tacttgaata atggtccatg tttgggggca 720
tattgtgttt cataagaagt gaaaggattt tgcaaagtaa gctacaaatg acccataaat 780
ctgttaacaa cagtccttaa tatgcaaaaga tgaaaaacaa gcattactgc taccctaaagg 840
gaactgggtc ttggtgatgt gcagatgggg ctgttggtta agagagctat tacaggtttt 900
ctctcttagg tttcatagga ggtagtact gagatgagat tgttttatct ttttgaatac 960
agatctcttg tcttgagtta gttctgagga tgggagtaat aaaggagttt tttgtttttt 1020
tgtttgtttg tttgtttttg ctcttagta atactcctct gacatttatt tctattattc 1080
ttcaaaagaaa ggaaaccaac tgaaatgttt gctttaacaa acattttaat aagttctctg 1140
ggtttttttt tcccccttta aaaaaattag catataccat agcaataaaa gaactaatgt 1200
taactattgt atgctacaac ttaagtgatt tttctaaaga agcacaatgt cattgaaagt 1260
attattgaaa aggatcatag tcacattgaa tttgtgaagg ccaaagaaat tgaagggagt 1320
gatatatttca ttttatgata ttcacatatt tagtaaat tgtgtacaag aataccaggc 1380
agagtgtttt acccatggaa acaggtttca gattactttg tttttactgt tagagtctca 1440
agtttagaaa tgctaacact taaatcagtt tttttctcac tatacttgaa gattgttaat 1500
attttgatat ctccctagct tgatgaat taaacatatct tcagatctgt gacagtgaca 1560
gccaatagga ctgataatat tagcttcaaa ccaataatat ccagggttaa aataaaaaatc 1620
atagtgaag tacgattgta aaattatgct atattaactt ttaagtctgt aataacttga 1680
catcaaaatg ttatgtaatt accataaata atggctagcg agaacatctt tggaaattct 1740
caaattacct ttcttactac actgtttgca gaatgaatgt agaaatgatc ctgttagctt 1800
tctgaatgtt ctgtggttga atgtgttttt gcttaataaa agctttttgt atttgtttaa 1860
attamaaaaa aaaaaaaaaa aaaaaaaact cga                                     1893

```

<210> 1887

<211> 433

<212> DNA

1175

<213> Homo sapiens

<400> 1887

```
aattcggcac gagggcgcag gccccagcca gctcaggcta cactatccca ggatcagcat 60
ggccgtccgc cagtgggtaa tcgccctggc cttggctgcc ctccttggtg tggacaggga 120
agtgccagtg gcagcaggaa agctcccttt ctcaagaatg cccatctgtg aacacatggt 180
agagtctcca acctgttccc agatgtccaa cctggctctg gccactgatg ggctcacata 240
tacgaatgaa tgccagctct gcttggcccc gataaaaacc aaacaggaca tccagatcat 300
gaaagatggc aaatgctgat cccacaggag cacctcaagc catgaagtgt cagctggaga 360
acagtgggtg gcatggagag gatatgacat gaaataaaag atccagccca aaaaaaaaaa 420
aaaaaaaaaa aaa                                     433
```

<210> 1888

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<400> 1888

```
gaggggaagtc aagaagggag gttgaggact gcacttttga tttacttctg acttcacgag 60
tcacttttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 120
tgatgattga ctcccagaat tcgaaagaaa ctgagtccca caaagctctg tctgatctgg 180
agctcgcagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 240
tttccttcac tttatatgaa ctggccactc accctgatgt ccagcagaaa ctgcaaaagg 300
gagattgatg cagttttgcc caataaggca ccacctacct atgrtgccgt ggtacagatg 360
gattaccttg acakggtggt gaatgaaacc tcaaattatn cccgttggtg tta 413
```

<210> 1889

<211> 783

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<400> 1889

```
gagaaaaagg tagaagaata aaagatccag tactttcttc tgggtaagca gttatgacca 60
gagatggaac cggcaactct ttggccagaa agctgtatcc aaaagacaga gaagatgaat 120
gtttttgttc actggtgact caggtaacac gtcttcaaga agccataggg aggttgaggg 180
agggaagtca agaagggagg ttgaggactg cacttttgat ttacttctga cttcacgagt 240
cactttctgc caaagaaatc tctccttttg cttctagcac cgactagatt tccttcagct 300
gatgattgac tcccagaatt cgaaagaaac tgagtccac aaagctctgt ctgatctgga 360
gctcgcagcc cagtcaataa tcttcatttt tgctggctat gaaaccacca gcagtgttct 420
ttccttcact ttatatgaac tggccactca cctgatgtc cagcagaaac tgcaaaagga 480
gattgatgca gttttgcccc ataagggtgag gggatgaccc ctggagatga aggggaagagg 540
```


1176

```

tgaagcctta gcaaaaatgc ctccctcacca ctccccagga gaatttttat aaaaagcata 600
atcactgatt ccttcactga cataatgtag gaagcctctg aggagaaaaa caaagggaga 660
aacatagaga acggttgcta ctggcagaag cataagatct ttgtacaata ttgctggccc 720
tggttcacct gtttactgtt atcacaataa tgctaagtaa aaaaaaaaaa aaaaanggcg 780
gcc                                                                 783

```

```

<210> 1890
<211> 399
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

```

```

<400> 1890
cgcnagagca ccctagcaca ggcgcgggta agatgagcac ggaaggtggt ggccgtcgct 60
gccaggcaca agtktccgc cgcattctct tcagcgcgag ccaccgattg tacagtaa 120
ttctaagtga tgaagaaaac ttgaaactgt ttgggaaatg caacaatcca aatggccatg 180
ggcacaatta taaagttgtg gtgacagtac atggagagat tgaccctgct acgggaatgg 240
ttatgaatct ggctgatctc aaaaaatata tggaggaggc gattatgcag ccccttgatc 300
ataagaatct ggatattgat gtgccatact ttgcagatgt ggtgatnctc cctggtctat 360
aacaggangc cccttaccca gcagcaggca gatatggnc 399

```

```

<210> 1891
<211> 3035
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (2911)
<223> n equals a,t,g, or c

```

```

<220>

```

1177

<221> misc feature

<222> (2959)

<223> n equals a,t,g, or c

<400> 1891

```

cccggagcag cgcggcagca gcatggctca cgggcccggc gcgctgatgc tcaagtgcgt 60
ggcgggcggc gacggggcgg tgggcaagac gtgcctactc atgagctatg ccaacgacgc 120
cttcccggag agtacgtgcc caccgtcttc gaccactacg caggaagact atgaccgtct 180
gaggccttta tcttacccaa tgaccgatgt cttccttata tgcttctcgg tggtaaattcc 240
agcctcattt caaaatgtga aagaggagtg ggtaccggaa cttaaggaat acgcaccaaa 300
tgtacccttt ttattaatat gaactcagat tgatctccga gatgacccca aaacttttagc 360
aagactgaat gatatgaaa aaaaacctat atgtgtggaa caaggacaga aactagcaaa 420
agagatagga gcatgctgct atgtggaatg ttcagcttta acccagaagg gattgaagac 480
tgtttttgat gaggctatca tagccatttt aactccaaa aacacactg taaaaaaaag 540
aataggatca agatgtataa actgttgttt aattacgtga gaaacatctt cagtggccaa 600
ggaaactgtc catttctctc agaaagcaaa tgaaatgcta cagctatacc cagacctttt 660
ataggtaatg aagcagttca aaacttgaaa gaaaacaaaa cctgtcctca gaattctata 720
aagtgtatta agaattgttc ttaaagggtt aagaagcagt aagcagcatc tgaagccaca 780
atctattata aatactttat ttcaactaga aggtacaatc tctcaggggt ttcatagttt 840
aaaaagctac aatcacatca tgttgttaact acgtaaaaaa cagagctgta aatggaactg 900
cttggctttg accatacaca tttctgcccc gcccttacag aatctgcaca aagaaatatc 960
tccctttgct ccagttaatt gttcttgtat gtaagttgct ttctattcca gtatatccag 1020
agtggtgaaa taacaaggcc agccacgtag ccaaaggctg ctccaagcgt acaggagatg 1080
ggccatacct gaggagagaa tgtatgagat caaaaaagaa caaatgtttt attattactt 1140
gagcacaagt gtaacctaaa tatttctata ttaaagctta atgtgctttc ttaaagaatg 1200
ccaaaagtgt aataagggtc taactgcatt tatcatgaac actaaaaatg tacacatttt 1260
agttaatgtg cattaaactg taacaaggct tctggcaatt gtagatttag tttgacgtc 1320
cccaaagtgc atgagacaca tgctaaaatt acaaattaaa attttgggtc agactttgcc 1380
ataatgatag actcaattta gctctctgaa ctagtgggta attttttttt ttttaattccc 1440
actttggctg tgtacatcaa atgaaatgag aagtgtgtat gctgaccaa ccacaagaaa 1500
ctttctttta gttgtgttaa agaggaaaga cctagaatcc aagcgtgtta catgaaaatt 1560
gtaacagagc agctgcttcc acctttcaga tatagatgtt ggaaccacag cagaagttat 1620
agagcgacaa cttatataca cacctagaat gtaagttaaa caaaataccg gcttccagag 1680
acctcttttc tccagccata ttacatcagg ctagaagtaa ttaatgttga tttatttcat 1740
ctacaagcag ttggtcccta agtgaaaggc tctgcttgaa aaaaaaaga aaaaaaagt 1800
ggaggaaaat tttcatgttc ttctgtgaag cttatttggg aactggagc catttcta 1860
ctttctctgg ggggaacagg ccacagaact gtgttagagg tgaaccatct taattactag 1920
ttctattacc taattcagct tccttggttg gtctgctgtg gatctgcctt attgcatatg 1980
ccatgcatca gataatggat gcatcagata atggtgttag acaaagcttc attgtgaaca 2040
acctaattgca ttttagagaa acaatctcat cacatttttt ctagcctttc ctacatttaa 2100
acttgctgtt gcccaaatta taatttttta aatgtctttg gtgggcttct gtttaattcac 2160
atgacttgag cttatagcta tgtctactgc acagattggg taatggaaca ctaaactttt 2220
atacttgaaa atgacagcct taaatgctca tatcagtcac aaatctagga tgtactgtct 2280
tgttgtatgt gagctttgta gagattttta aaaatataag catcaccttc ccattgaaga 2340
gtggagagag tctactggat gactggccag gaactttctc tctgaatcgg acatttggat 2400
gtcttctttc ttccaagaaa tgggtggttca cattaaagta tcatggcctt atgtatgctc 2460
aaatggaatc ttatgtaact ttcttattta attttgggtc gcttattttt agataaaatt 2520
gaaaggaatt gtataaatca attaacatat tagctgagtt gtccaacaca tgggtataaac 2580
gaattacaac agtaaaactat tacacatttc caacttgcct ttggggattt atgaggattt 2640
tttttgggtg ggggaggggg ctccaattca tatctctgaa accttcaca cttgggtttac 2700
taattcaaag ttagaagtct agaatttgcc ctgccctaac agaaacagat taggaatttg 2760

```

1178

```

tctacacaaa ctggtgtcac ctgtttcttg actgggattt ggtttcctca ttataaatat 2820
gggaggtaga acagagatct ccaacgtctc tcccatTTat cacagtaatt ttcttattca 2880
cagtaatcat tgttggrtgt tactttttca ncttcacatt ctcaagatgg taaaaatcat 2940
gtatatagat tatcagaant ctaagcaaag atgactgtca catctgaagc tgagggtgcct 3000
taggtacatc ggccgcgacc acggtaagcc gaatt 3035

```

<210> 1892

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 1892

```

gtgagctccg tctcaaaaaa taaataaaat agaagcagcc ttgtaactgt atttaccatg 60
ataatatatt ctgcacggta agaattcctt ttacagacat tctttatcaa gaggtcggcc 120
cttctttttc aggcacataa gccaaatgca ggctgtgtg tagctgtgtg ttttttctgt 180
ggttgccgca ttattccac ctccagctgg accccccact gcaaataagag aacagcgggtg 240
ggggatgggg gttaaaaagt agagaacctc ctttctgttc aactaatttc acgtgacagt 300
gcatgtatTT attcaataaa acctttatgt tagctcaaaa aaaaattcca aatgaagaaa 360
agaaagaaac ttnaa 376

```

<210> 1893

<211> 1304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1304)

<223> n equals a,t,g, or c

<400> 1893

```

cggcgggcgggt cggtcctgcc tgtaacggcg gggcgggctg ctgctccaga cacctgcggc 60
ggcgggcgggcg accccgcggc gggcgcgagg atgtggcccc tggtagcggc gctgttgctg 120
ggctcggcgt gctgcggatc agctcagcta ctatttaata aaacaaaatc tgtagaattc 180
acgtttttgta atgacactgt cgtcattcca tgctttgtta ctaatatgga ggcacaaaac 240
actactgaag tatacgtaaa gtggaaatTT aaaggaagag atatttacac ctttgatgga 300
gctctaaaaca agtccactgt cccactgac tttagtagtg caaaaattga agtctcacia 360
ttactaaaag gagatgcctc tttgaagatg gataagagt atgctgtctc acacacagga 420
aactacactt gtgaagtaac agaattaacc agagaagggt aaacgatcat cgagctaaaa 480
tatcgtgttg tttcatgggt ttctccaaat gaaaatattc ttattgttat tttcccaatt 540
tttgctatac tcctgttctg gggacagttt ggtattaaaa cacttaaata tagatccggt 600

```

1179

```

ggtatggatg agaaaacaat tgccttactt gttgctggac tagtgatcac tgtcattgtc 660
attgttggag ccattctttt cgtcccaggt gaatattcat taaagaatgc tactggcctt 720
ggtttaattg tgacttctac agggatatta atattacttc actactatgt gtttagtaca 780
gcgattggat taacctcctt cgtcattgcc atattgggta ttcaggatgat agcctatata 840
ctcgctgtgg ttggactgag tctctgtatt gcggcgtgta taccaatgca tggccctctt 900
ctgatttcag gtttgagtat cttagctcta gcacaattac ttggactagt ttatatgaaa 960
tttgtggctt ccaatcagaa gactatacaa cctcctagga aagctgtaga ggaacccctt 1020
aatgcattca aagaatcaaa aggaatgatg aatgatgaat aactgaagtg aagtgatgga 1080
ctccgatttg gagagtagta agacgtgaaa ggaatacact tgtgtttaag caccatggcc 1140
ttgatgattc actgttgggg agaagaaaca agaaaagtaa ctggttgtca cctatgagac 1200
ccttacgtga ttgttagtta agtttttatt caaagcagct gtaatttagt taataaaaata 1260
attatgatct aaaaaaaaaa angacaagaa ttaaatgata aacn 1304

```

<210> 1894

<211> 2617

<212> DNA

<213> Homo sapiens

<400> 1894

```

ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg 60
atcccccggt ctgcaggaat tcggcackag cggctgggag ctgaggatca gccgcttcct 120
gcctggattc cacagcttcg cgccgtgtac tgctcgccca tccctgcgcg cccagcctgc 180
caagcagcgt gccccggttg caggcgtcat gcagcgggag cgacccacgc tctgggccgc 240
tgcgctgact ctgctgggtg tgctccgcgg gccgcgggtg gcgcgggctg gcgcgagctc 300
ggcgggcttg ggtcccgtgg tgcgctgcga gccgtgcgac gcgcgtgcac tggcccagtg 360
cgcgcctccg cccgcctgtg gcgcggagct ggtgcgcgag ccgggctgcg gctgctgcct 420
gacgtgcgca ctgagcgagg gccagccgtg cggcatctac accgagcgcg gtggctccgg 480
ccttcgctgc cagccgtcgc ccgacgaggg gcgaccgctg caggcgtcgc tggacggccg 540
cgggctctgc gtcaacgcta gtgccgtcag ccgcctgcgc gcctacctgc tggcagcgcc 600
gccagctcca ggaaatgcta gtgagtcgga ggaagaccgc agcgccggca gtgtggagag 660
cccgtccgtc tccagcacgc accgggtgtc tgatcccaag ttccaccccc tccattcaaa 720
gataatcatc atcaagaaaag ggcatgctaa agacagccag cgctacaaag ttgactacga 780
gtctcagagc acagataccc agaacttctc ctccgagtcc aagcgggaga cagaatatgg 840
tccctgccgt agagaaatgg aagacacact gaatcacctg aagtctctca atgtgctgag 900
tcccaggggt gtacacattc ccaactgtga caagaaggga ttttataaga aaaagcagtg 960
tcgcccttcc aaaggcagga agcggggctt ctgctgggtg gtggataagt atgggcagcc 1020
tctcccaggc tacaccacca aggggaagga ggacgtgcac tgctacagca tgcagagcaa 1080
gtagacgcct gccgcaagkt taatgtggag ctcaaatatg ccttattttg cacaaaagac 1140
tgccaaggac atgaccagca gctggctaca gcctcgattt atatttctgt ttgtggtgaa 1200
ctgatttttt ttaaaccaaa gtttagaaaag aggtttttga aatgcctatg gtttctttga 1260
atggtaaact tgagcatctt ttcactttcc agtagtcagc aaagagcagt ttgaattttc 1320
ttgtcgcttc ctatcaaaat attcagagac tcgagcacag caccagactc tcatgcgccc 1380
gtggaatgct caccacatgt tggtcgaagc ggccgaccac tgactttgtg acttagggcg 1440
ctgtgttgcc tatgtagaga acacgcttca cccctactcc ccgtacagtg cgcacaggct 1500
ttatcgagaa taggaaaacc tttaaaccct gggtcatccg acatcccaac gcatgctcct 1560
ggagctcaca gcttctctgt gtgtcatttc tgaaacaagg gcgtggatcc ctcaaccaag 1620
aagaatgttt atgtcttcaa gtgacctgta ctgcttgggg actattggag aaaataaggt 1680
ggagtcctac ttgttttaaaa aatatgtatc taagaatgtt ctagggcact ctgggaacct 1740
ataaaggcag gtatttcggg cctcctctct cagggaatctt cctgaagaca tggcccagtc 1800
gaaggccag gatggctttt gctgcggccc cgtggggtag gagggacaga gagacaggga 1860
gagtcagcct ccacattcag aggcatacaca agtaatggca caattcttcg gatgactgca 1920

```

1180

```

gaaaatagtg ttttgtagtt caacaactca agacgaagct tatttctgag gataagctct 1980
ttaaaggcaa agctttatatt tcatctctca tcttttggtcc tccttagcac aatgtaaaaa 2040
agaatagtaa tatcagaaca ggaaggagga atggcttgct ggggagccca tccaggacac 2100
tgggagcaca tagagattca cccatgtttg ttgaacttag agtcattctc atgcttttct 2160
ttataattca cacatatatg cagagaagat atgttcttgt taacattgta tacaacatag 2220
ccccaatat agtaagatct atactagata atcctagatg aaatgttaga gatgctatat 2280
gatacaactg tggccatgac tgaggaaagg agctcacgcc cagagactgg gctgctctcc 2340
cggaggccaa acccaagaag gtctggcaaa gtcaggctca gggagactct gccctgctgc 2400
agacctcggg gtggacacac gctgcataga gctctccttg aaaacagagg ggtctcaaga 2460
cattctgcct acctattagc ttttctttat ttttttaact ttttgggggg aaaagtattt 2520
ttgagaagtt tgtcttgcaa tgtatttata aatagtaaat aaagttttta ccattaaaaa 2580
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 2617

```

<210> 1895

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 1895

```

ctgagatggc ggcgcccggg atcctgtgta gcggctgcag aggggtgccgc cgccttaggc 60
gaagtagggc cgtcctgagc gaaagaaccg cccccagcag gagcaccacc acggtttagc 120
aaagaatccc agaccccgcc cgggaaggca gccgcaccat ggagtcttcc agttcatcta 180
actcttattt ctccgttggc ccaaccagtc ccagcgctgt cgtgctcttc tactcgaagg 240
agctcaaaaa gtgggatgag tttgaagata ttttagaaga gaggaggcat gtcagtgact 300
tgaaatttgc aatgaaatgc tacacacctc ttgtctataa gggaattact ccatgtaaac 360
caattgatat taaatgtagt gttctcaatt ctgaggrgat tcattatgtc attaaacagy 420
tttccaagga wtcccttcaa tctgtgggtg tccccccgag gaagttagta ggttttaggt 480
ggaatgggtc acaaatnggt tttgggcctc tcggtttgtg ncttancngg gcaagttttt 540
aacaattttt 550

```

<210> 1896

1181

<211> 857

<212> DNA

<213> Homo sapiens

<400> 1896

```

gcggggcgggg ctcgggccggg gcaccgggtga gtgccgggtg cagagggagg cggcactggt 60
ctcgacgtgg ggcggccagc gatgaagccg ccagttcaa tacaacaag tgagtttgac 120
tcatcagatg aagagcctat tgaagatgaa cagactccaa ttcataatc atggctatct 180
ttgtcacgag tgaattgttc tcagtttctc ggtttatgtg ctcttccagg ttgtaaattt 240
aaagatgtta gaagaaatgt caaaaagat acagaagaac taaagagctg tggatatcaa 300
gacatatttg ttttctgcac cagaggggaa ctgtcaaaat atagagtccc aaaccttctg 360
gatctctacc agcaatgtgg aattatcacc catcatcatc caatcgcaga tggagggact 420
cctgacatag ccagctgctg tgaataatg gaagagctta caacctgcct taaaaattac 480
cgaaaaacct taatacactg ctatggagga cttgggagat cttgkcttgt agctgcttgk 540
ctcctactat acctgtctga cacaatatca ccagagcaag ccatagacag cctgcgagac 600
ctaagaggat ccggggcaat acagaccatc aagcaatata attatcttca tgagtttcgg 660
gacaaattag ctgcacatct atcatcaaga gattcacaat caagatctgt atcaagataa 720
aggaattcaa atagcatata tatgaccatg tctgaaatgt cagttctcta gcataatttg 780
tattgaaatg aaaccaccag tgttatcaac ttgaatgtaa atgtacatgt gcagatattc 840
ctaaagtttt attgaca 857

```

<210> 1897

<211> 779

<212> DNA

<213> Homo sapiens

<400> 1897

```

cgccggcgct gcagagggag gcggcactgg tctcgacgtg ggcggccag cgatgaagcc 60
ggctatcttt gtcacgagtg aattgttctc agtttctcgg tttatgtgct cttccagggt 120
gtaaatttaa agatgttaga agaaatgtcc aaaaagatac agaagaacta aagagctgtg 180
gtatacaaga catatttggt ttctgcacca gaggggaact gtcaaaatat agagtcccaa 240
accttctgga tctctaccag caatgtggaa ttatcaccca tcatcatcca atcgcagatg 300
gagggactcc tgacatagcc agctgctgtg aaataatgga agagcttaca acctgcctta 360
aaaattaccg aaaaacctta atacactgct atggaggact tgggagatct tgtctttag 420
ctgcttgtct cctactatac ctgtctgaca caatatcacc agagcaagcc atagacagcc 480
tgcgagacct aagaggatcc ggggcaatac agaccatcaa gcaatacaat tatcttcatg 540
agtttcggga caaattagct gcacatctat catcaagaga ttcacaatca agatctgtat 600
caagataaag gaattcaaat agcatatata tgaccatgtc tgaaatgtca gttctctagc 660
ataatttgta ttgaaatgaa accaccagtg ttatcaactt gaatgtaaat gtacatgtgc 720
agatatctct aaagttttat tgacaaaaaa aaaaaggaag aaaaaaacac aacaaaaaa 779

```

<210> 1898

<211> 3310

<212> DNA

<213> Homo sapiens

<400> 1898

```

cggaggaggg ctgctgtgga ggagaagcgg aggcagagac ttgaggagga caaagaacgc 60
cacgaagctg ttgtacggcg cacaatggaa aggagccaga agccaaaaca gaagcataac 120
cgttgggtcgt ggggaggctc tctccatggg agccctagca tccacagtgc agctcgccgc 180
ctgcagctca gcccatggga gagcagcgtt gttaacagac tcctgacgcc cacacattcg 240

```

1182

```

ttcctggcca gaagtaaaaag cacagctgcc ttgtctggag aagcagcatc ttgcagcccc 300
atcatcatgc cctacaaaagc tgcacactct agaaaattcga tggatcgacc aaaactcttt 360
gtaacaccac ctgagggctc ttctcgcagg aggatcattc atggcacagc gagctataaa 420
aaagaaagag agagagaaaaa tktactcttc ctcacatctg gcacccgaag ggctgtatct 480
ccatctaate ccaaagcaag acaaccagct cgctcccgac tttggcttcc gtccaagtct 540
cttctcatt tgcttggcac acccagaccg acatcctcct tgccacccgg ctgagtcaaa 600
gctgctcctg ctgaggtccg gccccatcc cccggcaaca tccgccctgt caagagggaa 660
gtcaaagtgg agcctgagaa gaaagatcct gagaaggaac ctgagaaagt tgccaatgag 720
ccctcactaa agggcagagc accttttagtg aaggtagaag aagccacagt tgaagagcgg 780
acacctgctg aaccagaagt tggscctgct gctccagcca tggccccagc tccagcctcg 840
gccccagctc cagcctcggc cccagctcca gccccggtcc ccacccagc catggtctca 900
gccccgtcat ccactgtgaa tgccagtgtc tctgttaaga cttctgcagg caccaccgac 960
ccagaggagg ccacaaggct tctagtgtgag aagaggcggc tggcccgaga gcagagagaa 1020
aaggaagaaa gggagaggag ggagcaggaa gagcttgaag gacaaaagag agaggaattg 1080
gctcaacgtg tggctgaaga gaggacgact cgccgtgagg aggagtgcgc caggctggaa 1140
gccgagcagg cccgggagaa ggaggagcag ctgcagcggc aggcggagga gcgggcgctg 1200
cgcgagtggg agggaggcaga gcgcgcccag aggcagaaaag aagaagaagc tcgcgttcgt 1260
gaagaagcag agagggtccg gcaggaacga gagaagcatt tccagagaga agagcaagag 1320
cgcttgaga gaaagaagcg acttgaggag attatgaaaa gaaccaggag aacagaagct 1380
acagataaga aaaccagtga tcagagaaac ggtgatatag ccaagggagc tctcactgga 1440
ggaacagagg tgtctgcact tccatgtaca acaaacgctc cgggaaatgg aaagccagtt 1500
ggcagccac atgtggttac ctacaccag tcaaaagtga cagtggagag cactcccgat 1560
ttggaaaaac aaccaaatga aaatggtgta tctgttcaga atgaaaattt tgaagaaatt 1620
ataaacttac ccattggatc taaaccatcc agattagatg tcaccaacag tgagagccca 1680
gaaatttcct tgaatccaat tttggccttt gatgatgaag ggacacttgg gccctgcct 1740
caggtagatg gtgttcagac acagcagact gcagaagtta tatgagtgtt tcttctgaag 1800
aaccaaagct gaaattttaat gagaatttct acaattaatg gaatttcctt cctgctataa 1860
aggagcatcc cctccacccg ttttctagag ttcttgacca tcattttgaa aagattttatt 1920
aaaactagct aaagacaaca gactggatag cttttctaata aattttcatc aataggaaaa 1980
aagaaatacg tctcattctt caatacttta aaatggcttt ttccagtgtg ctcttcttta 2040
gcaatcaata tttttctgca ttctttaaaa gacaagagaa tttggttata aaagaaatgg 2100
gctgactagg catgattttt ttggtcttaa aagcttaaca tgtaaaattg gcaaaaaaaa 2160
ttttttacct ttataatac ttgaaaaata agtacctctt tgttctacaa gtagaatgaa 2220
taggagaaga gtttaagcct gtttttttaa aatattattg caaagagctc tatttgtaga 2280
agcaaattat aggcagatta ccaggttctt ataaatacag cttgtacatg gacattctgc 2340
aaaccagct gtcacatttt tcttgcaact ccttttgcaa aagcagacta aaatgtttta 2400
aaatgtgaaa aaacattatt ttttcaaagc aagaaaataa tttactgcc tcttacataa 2460
tgtatttata aagtttttcc agataaaacta atcaaataaa ttagaataat gtgacaacat 2520
tacaaattta atttgttagc tgcattcctt ctgatgttac cacgatagaa tgttactgat 2580
gattcagggc tatttctgaa gtctgtatgt tgctgtctgc ccagtgatg gtggacttat 2640
ctttgcctta cctgatcaca aattatgttg gggaaaataa agatttaata tttctttaaa 2700
tagaaaaaga atttggtttt gctcgtttta gagcaatgag aaaatgatgg aatgttgact 2760
gtgtttggca cacaggacac ggaccttcac ggaagtcctt gctctgcgtg gcatctgtca 2820
gcttttcacc tttcattctt attcttcact tttgctgctg agcctagctg tacaaacttg 2880
cactttcatt tgctaataata aattcagttt tattttacca ttttagagac tactaatgat 2940
taaattgtaga aggagagggg gcacatgttt ttatgtggag tgtttaaaag ataaatttat 3000
accactgtaa tgtgcagctt ttattaaaag agaaattggg tgaactgcta ggttgaatga 3060
gagacttcac ctattggact atttttttta atccaggcat atggctctta gtaatggctt 3120
gtaatttgtg aaaacattaa tttgggggtt ttccctgttt tcagttgtcc atgtacacat 3180
agtcattata ttagaaaaga aagctgttca acaaacttgt ttaatttgtt taaatcaaca 3240
tagcatgaaa caccaaataa aatgtttgac atagttttaa aaaaaaaaaa aaaaaaaaaa 3300

```

1183

aaaaaaaaaa

3310

<210> 1899

<211> 1184

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1041)

<223> n equals a,t,g, or c

<400> 1899

```
ccgctgagcc tgatcgtttt acccatgtgc ctgcttcacc attttctgcc tgcattctgct 60
tgaattctgct gttgccttgg tgccttgacc ttacgtccat cagtggcccg tgctgtagtg 120
gttggagggg agtgacaggc agcagagggc aaataaaaata cctgtgaatc aaaccatggg 180
ttaggtacaa cccacacctga aaatggactc tcagagcacc cctgtgaaac agaacagata 240
aatgcaaaaga gaaaagatac aaccagtgac aaagatgatt cgctaggaag ccaacaaaca 300
aatgaacaat gtgctcaaaa ggctgagcca acagagtcct gcgaacaaat tgctgtccaa 360
gtgaataatg gggatgctgg aaggagatg ccctgcccgt tgccctgtga tgaagaaagc 420
ccagaggcag agctacacaa ccatggaatc caaattaatt cctgttctgt gcgactgggtg 480
gatataaaaa aggaaaagcc attttctaatt tcaaaaagttg agtgccaagc ccaagcaaga 540
actcatcata accaggcatc tgacataata gtcattcagca gtgaggactc tgaaggatcc 600
actgacgttg atgagccctt agaagtcttc atctcagcac cgagaagtga gcctgtgatc 660
aataatgaca accctttaga atcaaatgat gaaaaggagg gccagaagc cacttgctca 720
cgaccccaga ttgtaccaga gcccatggat ttcagaaaat tatctacatt cagagaaagt 780
tttaagaaaa gagtgatagg acaagaccac gacttttcag aatccagtga ggaggaggcg 840
cccgacagaag cctcaagcgg ggcactgaga agcaagcatg gtgagaaggc tcctatgact 900
tctagaagta catctacttg gagaataccc agcaggaaga gacgtttcag cagtgtgac 960
ttttmagacc tgagtaacaa atgtctttat ttgcngcaaa agctacattc actttttatt 1020
ttaaaggata taacataaaa ngtgaatgta gcttttgcag caaataaaga cattcacttt 1080
ttatgttata tccttttaaaa taaaaaatta atttgttggg attttagatg atttgcattt 1140
tacattttca attagatgag ttgggctggg ataaaacata agcc 1184
```

<210> 1900

<211> 3878

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2078)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1184

<222> (2079)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3847)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3869)

<223> n equals a,t,g, or c

<400> 1900

```

tgacacgggc cccacaggca tcaagtatga cctggaccgg caccagtaca actacgtgga 60
cgctgtgtgc tatgagaacc gactgcactg gtttgccaag tacttcccct acctggtgct 120
tctgcacacg ctcatcttcc tggcctgcag caacttctgg ttcaaattcc cgcgaccag 180
ctcgaagctg gagcactttg tgtctatcct gctgaagtgc ttcgactcgc cctggaccac 240
gagggccctg tcggagacag tggaggagga gagcgacccc aagccggcct tcagcaagat 300
gaatgggtcc atggacaaaa agtcatcgac cgtcagttag gacgtggagg ccaccgtgcc 360
catgctgcag cggaccaagt cacggatcga gcagggtatc gtggaccgct cagagacggg 420
cgtgctggac aagaaggagg gggagcaagc caaggcgctg tttgagaagg tgaagaagtt 480
ccggacccat gtggaggagg gggacattgt gtaccgcctc tacatgcggc agaccatcat 540
caaggtgatc aagttcatcc tcatcatctg ctacaccgtc tactacgtgc acaacatcaa 600
gttcgacgtg gactgcaccg tggacattga gagcctgacg ggctaccgca cctaccgctg 660
tgcccacccc ctggccacac tcttcaagat cctggcgctc ttctacatca gcctagtcat 720
cttctacggc ctcatctgca tgtatacact gtgggtggatg ctacggcgct ccctcaagaa 780
gtactcgttt gagtcgatcc gtgaggagag cagctacagc gacatccccg acgtcaagaa 840
cgacttcgcc ttcatgctgc acctattga ccaatacgac ccgctctact ccaagcgctt 900
cgccgtcttc ctgtcggagg tgagttagaa caagctgcgg cagctgaacc tcaacaacga 960
gtggacgtg gacaagctcc ggcagcggct caccaagaac gcgcaggaca agctggagct 1020
gcacctgttc atgctcagtg gcatccctga cactgtgttt gacctggtgg agctggaggt 1080
cctcaagctg gagctgatcc ccgacgtgac catccccgcc agcattgccc agctcacggg 1140
cctcaaggag ctgtggctct accacacagc ggccaagatt gaagcgcccc cgctggcctt 1200
cctgcgcgag aacctgcggg cgctgcacat caagttcacc gacatcaagg agatccccgt 1260
gtggatctat agcctgaaga cactggagga gctgcacctg acgggcaacc tgagcgcgga 1320
gaacaaccgc tacatcgtca tcgacgggct gcgggagctc aaacgcctca aggtgctgcg 1380
gctcaagagc aacctaagca agctgccaca ggtggtcaca gatgtgggcg tgcacctgca 1440
gaagctgtcc atcaacaatg agggcaccaa gctcatcgtc ctcaacagcc tcaagaagat 1500
ggcgaacctg actgagctgg agctgatccg ctgtgacctg gagcgcatcc cccactccat 1560
cttcagcctc cacaacctgc aggagattga cctcaaggac aacaacctca agaccatcga 1620
ggagatcatc agcttccagc acctgcaccg cctcacctgc cttaagctgt ggtacaacca 1680
catcgccctac atccccatcc agatcggcaa cctcaccaac ctggagcgcc tctacctgaa 1740
ccgcaacaag atcgagaaga tccccaccca gctcttctac tgccgcaagc tgcgctacct 1800
ggacctcagc cacaacaacc tgaccttccct ccttgccgac atcggcctcc tgcagaacct 1860
ccagaacctg gccatcacgg ccaaccggat cgagacgctc cctccggagc tcttccagt 1920
ccggaagctg cgggcccctg acctgggcaa caacgtgctg cagtcactgc cctccaggg 1980
gggcgagctg accaacctga cgcagatcga gctgcggggc aaccggctgg agtgccctgcc 2040
tgtggagctg ggcgagtgcc cactgctcaa gcgcagcnnn ttgggtgggtg agggaggacct 2100
gttcaacaca ctgccacccg aggtgaagga gcggctgtgg agggctgaca aggagcaggc 2160
ctgagcgagg ccggcccagc acagcaagca gcaggaccgc tgcccagtcc tcaggccccg 2220

```

1185

```

agggcaggcc tagcttctcc cagaactccc ggacagccag gacagcctcg tggctgggca 2280
ggagcctggg gccgttgtg agtcaggcca gagcgagagg acagtatctg tggggctggc 2340
cccttttctc cctctgagac tcacgtcccc cagggcaagt gcttgtggag gagagcaagt 2400
ctcaagagcg cagtatttgg ataatacaggg tctcctccct ggaggccagc tctgccccag 2460
gggctgagct gccaccagag gtccctgggac cctcaacttta gttcttggta tttatttttc 2520
tccatctccc acctccttca tccagataac ttatacattc ccaagaaagt tcagcccaga 2580
tggaagggtg tcagggaag gtgggtgccc ttttcccctt gtcccttattt agcgatgccg 2640
ccgggcattt aacacccacc tggacttcag cagagtgggtc cggggcgaac cagccatggg 2700
acggtcaccc agcagtgccg ggctgggctc tggcgtgcgg tccacgggag agcaggcctc 2760
cagctggaaa ggccaggcct ggagcttgcc tcttcagtat ttgtggcagt tttagttttt 2820
tgtttttttt tttttaatca aaaaacaatt tttttaaaaa aaaaagcttt gaaaatggat 2880
ggtttgggta ttaaaaagaa aaaaaaaact taataaaaaa aagacactaa cggccagtga 2940
gttggagtct cagggcaggg tggcagtttc ccttgagcaa agcagccaga cgttgaactg 3000
tgtttccttt ccctgggcgc aggggtgcagg gtgtcttccg gatctgggtg gaccttgggtc 3060
caggagtctt atttgttctt ggggaggggag gtttttttgt ttgttttttg ggtttttttg 3120
gtgtcttgtt ttctttctcc tccatgtgtc ttggcaggca ctcatctctg tggctgtcgg 3180
ccagagggaa tgttctggag ctgccaaagga gggaggagac tcgggttggc taatccccgg 3240
atgaacggtg ctccattcgc acctccccct ctcgtgcctg ccctgcctct ccacgcacag 3300
tgttaaggag ccaagaggag ccacttcgcc cagactttgt ttccccaccg cctgcggcat 3360
gggtgtgtcc agtgccaccg ctggcctccg ctgcttccat cagccytgtc gccacctggt 3420
ccttcatgaa gagcagacac ttagaggctg gtccgggaatg gggagggtcg ccctgggagg 3480
gcaggcggtt gttccaagcc ggttcccgtc cctggcgcct ggagtgcaca cagcccagtc 3540
ggcacctggt ggctggaaag caccctgctt tagatcactc ggggtccccac cttagaaggg 3600
tccccgcctt agatcaatca cgtggacact aaggcacgtt ttagagtctc ttgtcttaat 3660
gattatgtcc atccgtctgt ccgtccattt gtgttttctg cgtcgtgtca ttggatataa 3720
tcctcagaaa taatgcacac tagcctctga caaccatgaa gcaaaaaatcc gttacatgtg 3780
gggtctgaact tgtagactcg gtcacagtat caaataaaat ctataacaga aaaaaaaaaa 3840
aaagggngcc gtctaaagat caacttctnc cttgatca 3878

```

<210> 1901

<211> 175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<400> 1901

```

gtgagtgggtg actatgggca tcctgtgtat atcgtgcagg atgggcccc ccagagccct 60
ccaaacatct actacaaggt atgagggctc ctctnacgtg gctatcctga atccagccct 120
tcttgggggtg ctctccaggt ttaaattcct ggtttraggg acamctstaa catct 175

```

<210> 1902

<211> 1807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1186

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1184)

<223> n equals a,t,g, or c

<400> 1902

```

tggccgcccgc cgccgcttca gtggccggng tggcaaggac ccggacctca gggaggcctc 60
cgcacgaagt cggaccgtcc tgcgcgccgc ctaagtcacag gcttgcccgct ctgctgccag 120
gcaacaacgc ccctagtctc tccgttcggg aagacgcgtg gccctgcctg ccacccaccg 180
gaagtgaggg caaatggcaa cagcggctct ggaattctat acaggcattg ctgaggacac 240
ctaagatgac gcaatctccg cgcggttagg gcggggctcc gcaaggacct catgccttag 300
agatcgccctg aagagcggaa gccttctgtc gagaagcagc tacccaagct ccaggagctt 360
ccgaagaaac aggaccagag aggggaagggtg acctgaaagt cacagaataa ttttttagag 420
ctgaacaaga atccaagcct gcaactgcag agacgagaga tcttctgtct gtctatactc 480
ttggaaagca catcctaaga tctttgcaga ttatcctgtg gaaggaaaat gcctaaagtc 540
aaaagaagcc ggaaagcacc ccagatggc tgggagttga ttgagccaac actggatgaa 600
ttagatcaaa agatgagaga agctgaaaca gaaccgcctg agggaaagag gaaagtggaa 660
tctctgtggc ccattcttcag gatccaccac cagaaaaccc gctacatctt cgacctcttt 720
tacaagcgga aagccatcag cagagaactc tatgaatatt gtattaaaga aggctatgca 780
gacaaaaacc tgattgcaaa atggaaaaag caaggatatg agaacttgtg ctgcctgcgg 840
tgcattcaga cacgggacac caacttcggg acgaactgca tctgccgcgt gcccaaaagc 900
aagctggaag tgggcccgcct catcgagtgc acacactgtg gctgtcgtgg ctgctctggc 960
tgaggstggc gcgctccacc ctggactctg gacttcgcag gtccctgcct gtcacgccac 1020
ccccttccctg ggagcagcga gcagtgcacc agggccgagt tggagcacgg tctctatggg 1080
gaagcktcgc tgtctatcag ctgtgatttg taaaaataaa atctttaaat ctctcgagcc 1140
ccacgtctct tctttcagag catcggccta tggaaaccggc gggncggccc agggccccagg 1200
gaccagatgc cccagccccc ttgtggtgtg tgaggtgaca cacaaaggta gctggagctg 1260
gaagtcccgt gaaggtgaca cgcaaagggtg gctggagctg cacttggacc tgctgggagc 1320
acaggcacct tgggcctagt gtgtgtcctc accaacacct gtgacacgct gcggctgttc 1380
ctcagggcct ggctcttccc ccaggcagga ggtgacacca gctcacttgt cctggggctc 1440
ccacagagca ctggggggccg agcacattgt tccagctgtg ctcccatcac ctgcccccaa 1500
gggcacatcc gtcacacgcc tccttgccgg tgtcctggtc cccctggggc ttggtccgga 1560
acttctgcc a ggggtgcggg gtttcctctg cgggcacac tgctcagccac tgcttgtaat 1620
aggctcggaa gccgtcaatc ttctccaggt aggtgttctt ccttggttac cgggtcaaagg 1680
tgggagggta ctgggctgca aactccagct ggcggatgac cacttcgttc accgggaccc 1740
tgttctgctt catgtccttc aagatgctga tgagataggt gtagttcagc ttcctgatgg 1800
ccgcgtc 1807

```

<210> 1903

<211> 2810

<212> DNA

<213> Homo sapiens

<400> 1903

```

tttttttttt tttttttttt tttttttttg gtttcatggt ctgatttatt ggtggtgaat 60
acacaggggc agggccagga caagcagctt ggctactccc cctctgctgg ctgcccagac 120
ggcagagggg gctccatgtg gcaggagcta ggctcccaac gccactgtt cttgccaccc 180
tctgggctcc caggctgggc tccgctaggg tcctgtctcc cctgccagtt agttaggcaa 240

```

1187

```

gttcagggtgt ggaggccgca gggatagatc cagggtggctc tgggctgggc cctcttctct 300
tcccagcggg gaggtgctgt tggcctggct gggctggcct gaatctgttt caagttctcc 360
cttcctgccc agctcagttc accagtgtct gatccagggt caaatgacag ggacttgggt 420
ttttacaaca gcgtggcaag tggctgtctc cctgggcagc catatcccag acccactggg 480
ttgaagggtc tgtgggggtg agggacccca aggtgttcca agccagtggc tgcactggca 540
gcaggcctct gagagggagg cgggaagggt aggcgcggag agcaggctcc attctgggtc 600
gagtggagga ctggctccca gggtagttc acaccagtgc tcccagctgg cggctgctca 660
gtctctctg ctgggcgagc gcggggggcc ggggtatgc catgctgtg gtggagcagg 720
gggtgctctg ggtgctccc atgctgtggt tgggtgctgct gctctccgag gaggccgggg 780
cagccaccgc caccacgggc tcccgttgc tgggggaacg cgtgtgcgag tagatgtacc 840
agagtgcagc agtgagcagg gccccgatga ggaaggcacc aaagggtgatg cccagcacgg 900
cgggcaggac gaggcctttg cttgtgcaac cagacagggtc agggctgatg atgttcaagc 960
gcatgaagac agtccatagg acttctggt cttgagacc ggtcttggga cgcaggggcta 1020
ccgtgcagct gaggtgccc gttttgggta tgggtactgt gtagaagtgg aggaggaagc 1080
tgaagcgcgg gtcacccctc gggcttgggg acagcagggt cacacagttg cccttggccg 1140
ccggccctg gatgagttcc acggtgcctc cctcaggccc caagtccagg tggcagctgt 1200
ctaactggag caggaactcg gagacggatg gggacactct gacctgcaca aagctctgct 1260
ctgccgcckg ccaccgctgc ccgagcccg cgctatgtcc agcaaaggct ccgtggttct 1320
ggcctacagt ggccggcctg acacctcgt catctcgtg tggctgaagg aacaaggcta 1380
tgacgtcatt gcctatctgg ccaacattgg ccagaaggaa gacttcgagg aagccaggaa 1440
gaaggcactg aagcttgggg ccaaaaagg gttcattgag gatgtcagca gggagtttgt 1500
ggaggagtgc atctggccgg ccatccagtc cagcgcactg tatgaggacc gctacctct 1560
gggcacctct cttgccaggc cctgcatcgc ccgcaaaca gtggaaatcg cccagcggga 1620
gggggccaa tatgtgtccc acggcgccac aggaaagggg aacgatcagg tccggtttga 1680
gctcagctgc tactcactgg cccccagat aaaggtcatt gctccctgga ggatgcctga 1740
attctacaac cgttcaagg gccgcaatga cctgatggag tacgcaaagc aacacgggat 1800
tcccattccc gtcactccca agaaccctg gagcatggat gagaacctca tgcacatcag 1860
ctacgagggt ggaatcctgg agaaccctaa gaaccaagcg cctccaggtc tctacacgaa 1920
gaccaggac ccagccaaag ccccaacac cctgacatt ctcgagatcg agttcaaaaa 1980
aggggtccct gtgaagggtg ccaacgtcaa ggatggcacc acccaccaga cctccttgg 2040
gctcttcatt tacctgaacg aagtcgggg caagcatggc gtgggcccga ttgacatcgt 2100
ggagaaccgc ttcattggaa tgaagtccc aggtatctac gagaccccag caggcaccat 2160
cctttaccat gctcatttag acatcgagg cttcaccatg gaccgggaag tgcgcaaaat 2220
caaacaaggc ctgggcttga aatttgcgt gctgggtgat accggtttct ggcacagccc 2280
tgagtgtgaa tttgtccgcc actgcatcgc caagtcccag gagcgagtgg aagggaaagt 2340
gcagggtgtc gtccctcaagg gccagggtga catcctcggc cgggagtcct cactgtctct 2400
ctacaatgag gagctgggtg gcatgaacgt gcagggtgat tatgagccaa ctgatgccac 2460
cgggttcac aacatcaatt ccctcagggt gaaggaaat catcgtctcc agagcaagg 2520
cactgccaaa tagaccctg tacaatgagg agctggggcc tcctcaattt gcagatcccc 2580
caagtacagg cgctaattgt tgtgataatt tgtaattgtg acttggtctc cccggctggc 2640
agcgtagtgg ggctgccagg cccagcttt gttccctgg cccctgaag cctgcaaacg 2700
ttgtcatcga agggaagggt ggggggcagc tgcgggtggg agctataaaa atgacaatta 2760
aaagagacac tagtctttta tttctaaaaa aaaaaaaaaa gaaaagagat 2810

```

<210> 1904

<211> 4039

<212> DNA

<213> Homo sapiens

<400> 1904

aattcggaac gaggggtgaag cacaaggatt aagttggaaa agctgtaaat tgcattgtgca 60

1188

tattttgtcta	ttttttctat	aagtttttatt	gcaagaggta	aagaagaaaa	ctatatatat	120
atatcttatt	tagataaatct	cagtaccttt	tctggcattt	ttgccctgta	taggttgact	180
tggcaattcg	gccttttttag	aggcattaac	tactcctcgt	aagtgttgca	tttacetggc	240
tgttttagaaa	actgctgccc	aaattttatt	tatatttttg	tacagattct	gcagtttatg	300
atattgtttt	ctaaaaacaa	atgctgttta	tacatatgag	atagctattt	tgataggatt	360
tgctcacata	gttcctgcaa	acttcagatg	tacaagttgc	acttgacttt	ttatagagtt	420
gtaatgtttt	atatgtgtat	ggtgcaagag	aaaattggat	caaatacaatc	tgcaagttgat	480
gtcccccatt	gcaaacacag	gcacacacat	gcacacaccc	ataaacacac	acacagtgct	540
ttaagaaaagg	gccagggtgat	atcacaccca	aatttcacaa	gcactgaccc	cctggcacca	600
acaccgcga	gtactgtgac	ttccaaagcc	agagccacat	gtgctcatca	aacttgcaatt	660
aagcagttgg	cgggagatgg	ctgtggagct	gggggtttta	gtgatggttc	tcttttgctc	720
cctcttytga	gggtaaaagct	actgtctttc	ttaagagtgt	atttatgcca	agtttgcgct	780
tttaattgtt	tttattttgt	tttttaatga	aaaccagat	ctttcctttt	tggcataatt	840
tttatgatga	cctgaaattt	tacatccgaa	caaaatttta	catccgaaaa	gcaaccaact	900
tcttcatgga	actcagccct	gttgcaatgc	ttagggccct	taaagaagaa	aatctcccca	960
kaaggcatcc	atcatgttgc	ttaattgtct	tctgcagctt	cctttcccta	gagctttccc	1020
tgtgttgcta	agagctgaaa	atggcatctt	cgtgatcacc	acagtgaact	tggtctgcct	1080
cggccggccc	gggatgcact	cttacaacat	gtgtgactct	tgaacctgga	gttcatcaca	1140
ttacgtcaca	gcttcccatc	tgggtgcttt	cctgagtcag	ctacttcaca	cttgtcaagg	1200
ctgttttacc	ccaaaactca	gacaggactt	tctatgcatg	ttttccctcc	tcccccaat	1260
tccccccca	tcaccttatc	tcccaggaca	cacttgagaa	gtagcttttt	attcctagtg	1320
gtgtacattt	aatttttaaaa	aggttgcaat	gtatcatgct	tggtgcccga	actgttttatg	1380
gccttcttgt	ttcagttttt	tcttttcttc	caatgggtact	ttagctgttg	agtgcagggt	1440
acaacctata	ttgttatgca	gatggcttct	ttaggaataa	cttttatatt	tattttaaaaa	1500
tttttaaaatt	atgggatgtt	ttgttgttgt	tggtgtcttt	gttgttggtc	atttgtcaat	1560
attcagtcac	caattctgct	cacttcttgc	catggataaa	attgggtctt	tctggctaatt	1620
taaaaaagac	aactttataa	aatggcactt	taagcaagcc	atagttagtt	ttatttttgt	1680
aatgcacatg	gcaaagcaaa	gacgtttgtg	atgaagggaac	tgctcatcta	agcaaaagat	1740
ttgagtatga	tatgataaag	gctttctaca	ttctaattta	ctttttcccc	ccacttgaat	1800
gtgttttaaa	ggctaattat	cagctcagta	gagcagtgag	aaactgatca	aattgcactt	1860
gttctcctac	aagcaacctc	cacgcagaca	cctcgtactg	ctacagggtg	gtcattttcct	1920
ttaataggac	cagggaccat	gtaactgagg	tgaggggtgt	agtaratgct	tccagtgtca	1980
gtatgcctgt	taatttttaag	agcttccctt	tcttgccagag	aacaagctctg	cccagattcc	2040
atgcttttcta	taactggagg	acctggcaaa	cctgccgcat	gctgcacaca	tctacctacg	2100
tacacatata	caatagtatt	gatgattctg	aacaataaca	gggtaaaaaca	gttggtttgc	2160
cattgttaaa	aactgattta	cagtaactta	caacaactgt	acttttggtg	gattagcaaa	2220
tcatgtgttt	aaacaaatcc	catatgtttg	gcaacagttc	aaataagcac	ggagaagtg	2280
tgcccaaact	tggttctctg	actcttatgt	atttgttaagg	ctgggcttca	aaatcaaaac	2340
aaaaacccca	aaaacagcag	gcaaatgctt	tttaactctg	acaccgttgc	cataaatccc	2400
tgataactcaa	agtctaacaa	gaaagacatg	gaaaatttagc	agcccatttt	cagaaagatc	2460
aaaatgatct	agggttctaa	ttgcttttgc	atcctattct	tacaaagtga	tgtcccaaca	2520
gggaacagta	ggagctggag	tgggatctcc	aagtcaccag	ttgagtgtgg	gatgtgcttc	2580
cagcagtgcc	ttccctttat	gaaagacatc	acatggcatc	cagggccagg	caggcagctt	2640
gaggtgcctt	tacgagaaaa	ccgagctggg	gctgggagag	gacagttatt	gacactgatg	2700
tgcaatgaag	tgacaagatg	agagcagaat	cgtaagagct	ttgaatttga	agtgaagttt	2760
ttccccccat	aagttattta	ttcctttttt	ctgtgtaaat	atattttatt	tactgtggag	2820
cgctaacatc	tggatcgtaa	catgtgcaga	atgtatggta	ggaatgtatt	ctctttagag	2880
aatgtaaaac	tgtattaaaa	gggggtccaa	gccaggcccc	caggctcttct	cattgtatgc	2940
acagtcgcga	ttcatttttt	ctcttctcta	atatgggtct	atttgaaata	tgcaaaaggt	3000
atgaggaatg	ttttaatacc	tccaaatttt	taagaaaagc	atcaaagggt	tgatattttt	3060
taaagttttt	ttagtagcac	tttctctgga	tgacagaagg	ggcaaccaca	tgggcaccct	3120

1189

```

tgttcataacc aaaggggtgag cagtggccag agcctcctct gcacctctcg agtgtcttta 3180
ccaattgagc tttttatcgc catagccctt tggagtgcc cagctgccct gaggtcaatc 3240
aaggaaaatt tcttaatgaa ataagctcca aagagccaaa gtatcaactt acagatcggt 3300
tttaaagctt aaatttatga accacctttg tggtaaacaa tgaattatga ataccgcagg 3360
gcagccttct taaatgacaa atgtaaaaaa aaaaaaaaaa aaactctact tcgtgcagca 3420
attgctactc tatacgaatt gtcttaattt gaaaaccttg ctgttacaaa ttggaccttt 3480
atacattttc tgaaaacaat gaaaagagta tatttaacct tttctggctg taaatggtta 3540
ccttctctgta actgccccgc acctggaggc atggagttgt gtgcatcctg cttatgtaca 3600
attgttttca gtgtttctaa gaatgagtct gaatggttct tgaaaattag ccaggatcaa 3660
atgctattgc agacaaagcc aataaaaagt tggacttctt ttggggataa caagttttgg 3720
aagagaaatg caggccatat gtgcgcatga ccgagatttt gaaaaaagat gtacatagtg 3780
acatgttttg tgcatgggtt ttgaggaggg cttttgtcaa aaaggaggta taacctttcc 3840
cccacagacc tgagagctgt gccttttcta tgcaatatta cagacgttac atcggaacct 3900
agatggctgt attcacatgt aggtttgggc tgtaattctaa acaattggac agattaaatg 3960
tacatggaaa tgagcagctt tacttttgta gttttatatt atacaataaa cagttaaaag 4020
atgaaaaaaa aaaaaaaaaa 4039

```

<210> 1905

<211> 3989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<400> 1905

```

tcagttggaa gacttaaaga aagtcagtca gaattcacag cttgctaattg agaagctgtc 60
ccagttacaa aagcagctag aagaagccaa tgacttactt aggacagaat cggacacagc 120
tgtaagattg aggaagagtc acacagagat gagcaagtca attagtcagt tagagtccct 180
gaacagagag ttgcaagaga gaaatcgaat tttagagaat tctaagtcac aaacagacaa 240
agattattac cagctgcaag ctatattaga agctgaacga agagacagag gtcatgattc 300
tgagatgatt ggagaccttc aagctcgaat tacatcttta caagaggagg tgaagcatct 360
caaacataat ctcgaaaaag tgggaaggaga aagaaaagag gctcaagaca tgcttaataca 420
ctcagaaaag gaaaagaata atttagagat agatttaaac taaaaactta aatcattaca 480
acaacgggta gaacaagagg taaatgaaca caaagtaacc aaagctcgtt taactgacaa 540
acatcaatct attgaagagg caaagtctgt ggcaatgtgt gagatggaaa aaaagctgaa 600
agaagaaaaga gaagctcgag agaagcntga aaatcgggtt gttcagattg agaaacagtg 660
ttccmtgcya gacgttgatc tgaagcaatc tcagcagaaa ctagaacatt tgactggaaa 720
taaagaaaagg atggaggatg aagttaagaa tctaaccctg caactggagc aggaatcaaa 780
taagcggctg ttgttacaaa atgaattgaa gactcaagca tttgaggcag acaattttaa 840
aggtttagaa aagcagatga aacaggaaat aaatacttta ttggaagcaa agagattatt 900
agaatttgag ttagctcagc ttacgaaaca gtatagagga aatgawggac agatgcggga 960
gctacaagat cagcttgaag ctgagcaata tttctcgaca ctttataaaa cccaggtaaa 1020
ggaacttaaa gaagaaattg aagaaaaaac agagaaaatt taaagaaaat acaggaacta 1080
caaaatgaaa aagaaactct tgctactcag ttggatctag cagaaacaaa agctgagctt 1140
gagcagttgg cgcgaggcct tctggaagaa cagtattttt aattgacgca agaaagcaag 1200
aaagctgctt caagaaatag acaagagatt acagataaag atcacactgt tagtcggctt 1260
gaagaagcaa acagcatgct aaccaaaagat attgaaatat taagaagaga gatgaagagc 1320
taacagagaa aatgaagaag gcagaggaag aatataaact ggagaaggag gaggagatca 1380

```

1190

```

gtaatcttaa ggctgccttt gaaaagaata tcaacactga acgaaccctt aaaacacagg 1440
ctgttaacaa attggcagaa ataatgaatc gaaaagattt taaaattgat agaaagaaag 1500
ctaatacaca agatttgaga aagaaagaaa aggaaaatcg aaagctgcaa ctggaactca 1560
accaagaaag agagaaattc aaccagatgg tagtgaaaca tcagaaggaa ctgaatgaca 1620
tgcaagcgca attggtagaa gaatgtgcac ataggaatga gcttcagatg cagttggcca 1680
gcaaagagag tgatattgag caattgcgtg ctaaactttt ggacctctcg gattctacaa 1740
gtgttgctag ttttcctagt gctgatgaaa ctgatggtaa cctcccagag tcaagaattg 1800
aaggttggct ttcagtacca aatagaggaa atatcaaacg atatggctgg aagaaacagt 1860
atgtttgggt aagcagcaaa aaaattttgt tctataatga cgaacaagat aaggagcaat 1920
ccaatccatc tatggtattg gacatagata aactgtttca cgttagacct gtaacccaag 1980
gagatgtgta tagagctgaa actgaagaaa ttctaaaaat attccagata ctatatgcaa 2040
atgaagggtga atgtagaaaa gatgtagaga tggaaaccagt acaacaagct gaaaaaacta 2100
atttccaaaa tcacaaaggc catgagttta ttctacact ctaccacttt cctgccaatt 2160
gtgatgcctg tgccaaacct ctctggcatg tttttaagcc accccctgcc ctagagtgtc 2220
raagaygcca tgtaaagtgc cacagagatc acttagataa gaaagaggac ttaatttgtc 2280
catgtaaagt aagttatgat gtaacatcag caagagatat gctgctgtta gcatgttctc 2340
aggatgaaca aaaaaaatgg gtaactcatt tagtaaagaa aatccctaag aatccaccat 2400
ctggttttgt tcgtgcttcc cctygaacgc ttctacaag atccactgca aatcagtctt 2460
tccggaaagt ggtcaaaaat acatctggaa aaactagtta accatgtgac tgagtgcct 2520
gtggaatcgt gtgggatgct acctgataaa ccaggcttct ttaaccatgc agagcagaca 2580
ggctgtttct ttgacacaaa tatcacaggc ttcagggtta agattgctgt ttttctgtcc 2640
ttgctttggc acaacacact gagggttttt ttatttgcgg gtttgcttac aggtagatta 2700
gattaattat tactatgtaa tgcaagtaca gttgggggaa agcttaggta gatataattt 2760
ttttaaaagg tgctgccttt ttggatttat aagaaaatgc ctgtcagtcg tgatagaaca 2820
gagttttcct catatgagta agaggaaggg actttcactt tcaagtggaa cagccatcac 2880
tatcaagatc agctcatgga aggagtaaag aaaatatctc aaaatgagac aaactgaagt 2940
tttggttttt ttttaatgac ttaagttttt gtgctcttgc aagactatac aaaactattt 3000
taagaaagca gtgatatcac ttgaacttca gtgccctcac tgtagaattt aaaagcctta 3060
ctgttgattg cccatgttgg acttgatgga gaaattaaat atctttcatt atgctttaca 3120
aaatactgta tatgtttcag caagtttggg gaatgggaga ggacaaaaaa aagttacatt 3180
taatctatgc atttttgcca agccatattg agttatttta ctactagaga cattaggaaa 3240
ctaactgtac aaaagaacca agtttaaaag cattttgtgg ggtacatcat ttctataatt 3300
gtataatgta tttctttgtg gttttaaatg ataaagacat taagttaaca aacatataag 3360
aaatgtatgc actgtttgaa atgtaaatta ttcttagaac actttcaatg ggggttgcat 3420
tgtcctttta gtgccttaat ttgagataat tattttactg ccatgagtaa gtatagaaat 3480
ttcaaaaaat gtattttcaa aaaattatgt gtgtcagtga gtttttcatt gataattggg 3540
ttaattttaa atatttagag gtttgttggg ctttcataaa ttgagtacaa tctttgcatc 3600
aaactacctg ctacaataat gactttataa aactgcaaaa aatgtagaag gttgcaccaa 3660
cataaaaagg aaatatggca atacatccat gatgttttcc agttaacata ggaattacca 3720
gataaatact gttaaactct tgtccagtaa caagagttga ttcatatgga cagtatgatt 3780
tattgtttat ttttttaacc aaataacctc tcagtaattt ataatggctt tgcagtaatg 3840
tgtatcagat aagaagcact ggaaaaccga tcgtctctag gatgatatgc atgtttcaag 3900
tggtattgaa agccgcactg atggatatgt aataataaac atatctgtta ttaataataa 3960
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3989

```

<210> 1906

<211> 2629

<212> DNA

<213> Homo sapiens

<220>

1191

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 1906

```

gacagtcacg gtccgattcc cgggtcgacc cacngtccg gggtcctcca ggcccagttg 60
gtccttcagg taaagaagga aaccctgggc cacttgggcc aattggacct ccaggtgtac 120
gaggcagtggt aggagaagca ggacctgagg gccctcctgg tgagcctggc ccacctggcc 180
ctccgggtcc ccctggccac cttacagctg ctcttgggga tatcatgggg cactatgatg 240
aaagcatgcc agatccactt cctgagttta ctgaagatca ggcggctcct gatgacaaaa 300
acaaaacgga cccagggggtt catgctaccc tgaagtcaact cagtagtcag attgaaacca 360
tgcgcagccc cgatggctcg aaaaagcacc cagcccgcac gtgtgatgac ctaaagcttt 420
gccattccgc aaagcagagt ggtgaatact ggattgatcc taaccaagga tctgttgaag 480
atgcaatcaa agtttactgc aacatggaaa caggagaaac atgtatttca gcaaaccat 540
ccagtgtacc acgtaaaacc tgggtgggcca gtaaattctc tgacaataaa cctgtttggt 600
atggtccttga tatgaacaga gggctctcagt tcgcttatgg agaccacca tcacctata 660
cagccattac tcagatgact tttttgcgcc ttttatcaaa agaagcctcc cagaacatca 720
cttacatctg taaaaacagt gtaggataca tggacgatca agctaagaac ctcaaaaaag 780
ctgtggttct caaaggggca aatgacttag atatcaaagc agagggaaat attagattcc 840
ggtatatcgt tcttcaagac acttgctcta agcggaatgg aaatgtgggc aagactgtct 900
ttgaatatag aacacagaat gtggcacgct tgcccatcat agatcttget cctgtggatg 960
ttggcggcac agaccaggaa ttcggcggtt aaattgggcc agtttgttt gtgtaaagta 1020
agccaagaca catcgacaat gagcaccacc atcaatgacc accgccattc acaagaactt 1080
tgactgtttg aagttgatcc tgagactcct gaagtaatgg ctgacctgc atcagcattg 1140
tatatatggt cttaaagtgc tggcctcct atccttcaga atatttatt tacttacaat 1200
cctcaagttt taattgattt taaatatttt tcaatacaac agtttaggtt taagatgacc 1260
aatgacaatg accacctttg cagaaagtaa actgattgaa taaataaatc tccgttttct 1320
tcaatttatt tcagtgtaat gaaaaagttg cttagtattt atgaggaaat tcttcttctc 1380
ggcaggtagc ttaaagagtg gggatatatg agccacaaca catgtttatt ttgcttggct 1440
gcagttgaaa aatagaaatt agtgcccttt tgtgacctct cattccaaga ttgtcaatta 1500
aaaatgagtt taaaatgttt aacttgtgat cgagacctac atgcatgtct tgatattgtg 1560
taactataat agagactcct taaggagaat cttaaaaaaa aaaaaacgtt tctcactgtc 1620
ttaaatagaa ttttttaata gtatatattc agtggcattt tggagaacaa agtgaattta 1680
cttcgacttc ttaaattttt gtaaaagact ataagtttag acatctttct cattcaaatt 1740
taaagatata tttctcctct tgatcaatct atcaatattg atagaagtca cactagtata 1800
taccatttaa tacatttaca ctttcttatt taagaagata ttgaatgcaa aataattgac 1860
atatagaact ttacaaacat atgtccaagg actctaaatt gagactcttc cacatgtaca 1920
atctcatcat cctgaagcct ataatgaaga aaaagatcta gaaactgagt tgtggagctg 1980
actctaatac aatgtgatga ttggaattag accatttggc ctttgaactt tcataggaaa 2040
aatgacccaa catttcttag catgagctac ctcatctcta gaagctggga tggacttact 2100
attcttggtt atattttaga tactgaaagg tgctatgctt ctgttattat tccaagactg 2160
gagataggca gggctaaaaa ggtattatta tttttccttt aatgatgggtg ctaaaattct 2220
tcctataaaa ttccttaaaa ataaagatgg tttaatcact accattgtga aaacataact 2280
gttagacttc ccgtttctga aagaaagagc atcgttccaa tgcttggttca ctgttcctct 2340
gtcatactgt atctggaatg ctttgtaata cttgcatgct tcttagacca gaacatgtag 2400
gtccccttgt gtctcaatac tttttttttc ttaattgcat ttgttggctc tattttaatt 2460
tttttctttt aaaataaaca gctgggacca tcccaaaaga caagccatgc atacaacttt 2520
ggtcattgat ctctgcaaag catcaaatta aatgcacgct tttgtcatgt caaaaaaaaa 2580
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaac 2629

```

<210> 1907

1192

<211> 1551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (676)

<223> n equals a,t,g, or c

<400> 1907

```

gctccactgc ttctactctg ggttgggatt caggaagaca ggcacagtcc tctctgttca 60
tagaaacacc tgccagtgtc aaggattcca gtcagggtgtc tatcccaact ggtcagggag 120
agaagggcag acccattctc aaagaccacc atgtccaagg tctgacagct cccactggc 180
tgccccaca ggggctttag gctggtctgg gtcattggga agcgtccctc ttatcgctgg 240
tctgtgttct cctggatttg gkatctatgt tggtagact cctggccttt tatctaaagg 300
actttggcct ttgtaaatca caagccaata atagactttt ttctccccct ctgttttttg 360
ctgtgtcatc tctgccttga gactgccttg agacagtgtc tgccttgaga gagtgagcca 420
attaacagct gcctgaattg tcattttcca ttttggtttg ttagaggtgg gaggggtggg 480
ttttgagaag gtcaaaagca ataccagaag taaagggaaa tatcagacaa tattttatta 540
ttttttcata gatgttctgc cacacaaaga acttgggggtg taaggataag gcaaaagctc 600
caatcccatt tttcagttct cctaggatgc acccctcagg gagcctggcc agagtccga 660
ggcccgtagc cgtcantgtt tgctttattt tccatcaaag ccctctgaga agtgagacct 720
cagcaattcc gggagccaca tagagacaga cttggcaagg gacccctgg ttctgagcca 780
gtagctgcca tctggaaatt cctcttttag cctctcctta gaggtgaatg tgaatgaagc 840
ctcccaggca cccgctgaat ttctgaggcc ttgcttaaag ctgagaagtg gtttaggcatt 900
ttggaaaate tggttcacat cataaagaac ttgatttgaa atgttttcta tagaaacaag 960
tgctaagtgt accgtattat acttgatgtt ggtcatttct cagtccattt tctcagttct 1020
attatttttag aacctagtca gttctttaag attataactg gtccctacatt aaaataatgc 1080
ttctcgatgt cagattttac ctgtttgctg ctgagaacat ctctgcctaa tttaccaaaag 1140
ccagaccttc agttcaacat gcttccttag cttttcatag ttgtctgaca tttccatgaa 1200
aacaaaggaa ccaactttgt ttttaacaaa ctttgttttg ttacagtttt caggggagcg 1260
tttcttccat gacacacagc aacatcccaa agaaataaac aagtgtgaca aaaaaaaaaa 1320
caaacctaaa tgctactgtt ccaaagagca acttgatggt tttttttaat actgagtgc 1380
aaaggtcacc caaatcccta tgatgaaatt ttaaattaat gggcaccttt caacatcatt 1440
tgcttcctta tctacagttg attcagaaat ctgcattttt tattctttta tatgactttt 1500
aagtaaaaga tttatatgga wttaaaaaaa aaaaaaaaaa aaaataacgt t 1551

```

<210> 1908

<211> 468

<212> DNA

<213> Homo sapiens

<400> 1908

```

ggcaaaactg ggggagattg ttttgctgga ggccctgggt ctggggagaag gggggctgat 60
tcctctgaaa ttgctagaag agacacaggt gaggcctaac ttgggctttc cgtaccgctc 120
ctgcaggcat tattgtcatg gcaactgctg gcatgtttcaa tgtgcaccgt catggggcca 180
ttaactcagc agccatcttg ttgtatgccc tgacctgctg catctctggc tacgtgtcca 240
gccactttcta cgggcagatt ggaggcgagc gttgggtgtg ggaacatcat tctcaccacc 300
agtctcttct ctggtgagga ctttcctttc cctgggtgggc ctttctggat taggaatgaa 360
gaacacattg tgggctgggt cacagtgggt tcacamctgt kaatcctagc acttggggag 420
accgaggscc gaggwttcaa tttgaggccc aaaagttttg aggacaag 468

```

1193

<210> 1909
<211> 1799
<212> DNA
<213> Homo sapiens

<400> 1909
ggcacgagga ttacacgtct gagccaccat gccagccca gaaaaaaatt tctatcatct 60
tttgctacca tttttgctgg cactactaaa agcattaaaa tgtgacagca gttccattgc 120
ctccacatct atgtacaatt tctaatacca tttttgctct ggtgctgatg gtttcctgat 180
atcaggtagg gtggagtaca gggatgcttc taccaggagt gtgattatac agccactgcc 240
tttattttctg gctttgcctt tgtgatatgg tctatcagat gattgataaa atctatctag 300
agtaaggata taagacaaaa taaagatact gtaattaagg ggaaagggag gctagaggac 360
atggctcagt atccccaagt cttttattta ggatatgggt tcagctactt ctgacttgac 420
ttaaacagtg acaaaaataac aatggcttaa acaagatagt ttattttctt tcatgtaaaa 480
at ttgaaatga caatttagtg aaggtgacaa gggccacgc ttctgctaag gtccaggcat 540
tcctagagtg gtatatgata gatcatatgg tataagctag atcacttcca tagccacaga 600
gtatccagtt attaatacaa acaaatgaga agaggaaggg gagagcaagt ctttctttgt 660
tttttagagca caatccagaa gttgaattcc tatcttagtc acattaaatt ggctagagta 720
tcgttacgta gtcagaccta gagttgcaaa ggagactgaa aaaatgcagt ttaatctgaa 780
cagccatgtg tccaggtaaa aattctgtta ttaggggaaga aagagagaat gaatattggg 840
aaacactttc aagactccca caccaaagta ctacctaaat attttattct tcctatgttt 900
gtgtgaggta ttgaggtttt ayaaatgtgc acataatttt gcaattgtat ttttatttat 960
attacacagt aagaaaaaca gaatgttcta tatttatagt cttcctgtta caaatatgcg 1020
attagagctt aaagagtcat agtatcagaa ttagaatgtt aatattccca ctcaatatac 1080
tgaggtctca ttttcattat ggtgggttta ctaactgcc catatacttc gcagggtgc 1140
tttgaagcta aaatgagatc attcatatgg gatcacatta agctgctaga aattagaaaa 1200
tgtacatgag atagtataaa ttttacagtc actaatttaa gtttcttttc attagacgct 1260
gttgaagct ctgactgtgg cagttgttgt tactttctat gatgtatata ttattctgca 1320
agctttcata ctgactacta cagtattttt tggtttgact gtgtatactc tacaatctaa 1380
gaaggatttc agcaaatttg gagcagggtt gtttgctctt ttgtggatat tgtgcctgtc 1440
aggattcttg aagttttttt tttatagtga gataatggag ttggtcttag ccgctgcagg 1500
agcccttctt ttctgtggat tcatcatcta tgacacacac tcaactgatgc ataaactgtc 1560
acctgaagag tacgtattag ctgccatcag cctctacttg gatatcatca atctattcct 1620
gcacctgtta cggtttcttg aagcagttaa taaaaagtaa ttaaaagtat ctgagctcaa 1680
ctgaagaaca acaaaaaaaaaa tttaatgaga aaaaaggatt aaagtaattg gaagcagtat 1740
atagaaactg tttcattaag taataaagtt tgaaacaatg gaaaaaaaaa aaaaaaaaaa 1799

<210> 1910
<211> 1267
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)

1194

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1244)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<400> 1910

```

cggattatgc ngamacnccc cagggnttrt gctatgacgt cgcattgcacg cgtaagcttg 60
ggccccctcga gggatcctct agagcggccg ccgcggcatt cgggggaatct gcagggcaga 120
tgagtaacga aagaggcttt gaaaatgtag aactgggagt cataggaaaa aagaagaaaag 180
tccaaggag agtcatccac tttgttagtg gtgaaacaat ggaagaatat agcacagatg 240
aagacgaagt tgatggcctg gagaagaaa atgttttgcc tactgttgat cgcacaaaac 300
ttacctggg tccctactta tggttttaca tgcttcgggc tgctacatca actctctcag 360
tgtgtgactt ccttggagag aagattgcat ctgttttggg tatcagcacc ccaaagtacc 420
aatatgccat tgatgaatat tatcgatga agaaggagga agaagaagaa gaagaagaaa 480
acaggatgtc tgaagaagca gaaaaacaat atcaacagaa taaattgcag actgattcca 540
ttgttcagac agatcaacca gagacagtga tatccagctc atttgtgaat gtcaattttg 600
aaatggaggg agacagtga gtaattatgg aaagcaagca aaatccagtc tctgtccac 660
cataaaatga aatgactatc aagcttcaaa ctcttaagtt tttttttttt aatacaaaaa 720
ctttcacatt ctttattcag tgggacttaa tacaattatt tatattttta attattaaag 780
tatctggaaa gggaaaatgt tttcttcatt tttaggatct atctagcaaa agccagatct 840
gaaattcaga tatttgtact gtttttactg tgtatagaaa ttagtgcttt ggtttttaaa 900
tgatctttta aaaaagttaa ggacatccta gagccttaat agttaagaag agttaaatta 960
tcaagcctat ttgtgcattt gctttttttg aaaaaggtaa gttgctgatt aagtctaatt 1020
ggaattgata attccatagt cttagattaa aatgaggata ttttctccta gattttctca 1080
tgttatgcca tgcatttata tatctaacca ttaatttcac actaaggatg cttcaccata 1140
taataaaaagg agcaagatgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200
aaaaggggcg gacgcgtggg tccgaccgga gaattcccg atcngtcact gncgggctga 1260
cttntct 1267

```

<210> 1911

<211> 554

<212> DNA

<213> Homo sapiens

1195

<220>
 <221> misc feature
 <222> (438)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (543)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (551)
 <223> n equals a,t,g, or c

<400> 1911
 tggcgggggag cgcaagcggc ggccggccact gccacgtatt cccggcagtg gtggcggcgg 60
 cggcggcggc gcccgcgggc aggaataact caagtcacct gtactggaaa tcagtttgct 120
 gaaattaatc aacgattctt gaagttgaag aaaagttgtt ctctctacag gaggttccag 180
 ccttgssaaga ggagtgtggc ccttccttga atccctcttg acacaccctc ctagcatcct 240
 ctaggaaaaga tgcggcaks aaagggaagc ccaagaagga gacctccaag gacaagaagg 300
 agcgggaagca agccatgcag gagggccggc agcagatcac tacagtggtr ctgcccacrc 360
 tggccgtggt cgtgctcttg atcgtgggtt ttgtgtacgt ggccacgcgc cccaccatca 420
 ccgagtgcgc cccgcatncg gtcgcggacc ccatcggcag ggagaggaat gctcggggagg 480
 gggacgcaaa caaaaaatgg cttttatatt cagagatgtt catgttgctg aactgttaag 540
 cangaancac nctg 554

<210> 1912
 <211> 1718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (31)
 <223> n equals a,t,g, or c

1196

<400> 1912

```

tggantggga ngtagtgccg tccatcagtt ntggccttcc agccagatgt tgtcattaca 60
gcagtaacct gaagctttca ccgtagacgt gctgtattgc ccagaagcca tctgtcsct 120
ggtcgsgtc ctgctggaggc tggctgcctg ctgggagcac cagcgggctc ctgaggtcta 180
crtggccttt acygtccgca acccagagac gtgccagstg ttcaccaccg agctaggcyg 240
ggctgggatc agatgggaag cggaagctca tcatgaccag aaactgtttc cctayggaga 300
gcacttgag atggcaatgc tgaacctcac actgtaggac tcacacacga ctccaacggg 360
attgtgagaa tcaagtcact ctcatgggaa gaatttttat atgggaaagc ggataaaact 420
ttcattggac tggaatgttt ggagaatgtt aawttccaaa tcaggaacca caaactgccc 480
tctaataaga catcggctat ctaagcgtgt ggggtgcccc tttctgccag cagttctggg 540
tcttaagaaa atcaccataa atcagacatg aaaattcttg ctccaaaaay agcattttct 600
ttgtgcaaat aaaaacgtgt gtatcaagta tgatgttccc ccaacgtgga cacactcagt 660
tcctcacaaa gccaaagcca ctgcagctgc cacatccctg ggcttacggg gcagcaggtg 720
cttttttcaa gacaggaatc aaaatgttag gaacacggca gaaaggggac acctggagac 780
caaacgcagg atgaggagtt ctgcagaggt cacagggaag tcacagaaca gtaatacgtc 840
agcaggggca tggggcgtga agaacagaag aagagaggaa gcgtttccaa gcctccagag 900
aagaaatcaa ggccaaccaa agcttcccg gtcacagaac caattctttt accaggcagt 960
accactgctg tcatttcagc ttctggccac tgggaggtgc tgctcgaaag ggtttgccct 1020
gagactccaa gaagaagctg cgggaaggac agcaggggtc ctgggggttt agcctctggc 1080
ccaggagtta tgtgtccata accaaakgga gcacastctg caccakctc tcatcccatc 1140
ggagctgctg cgaytccgc aggttcttcc ggaactggtt tagcttgccc gcaggatcag 1200
gaaagtttga gaaaagcatc tgcaaaaaaa taaagagcag agcttamctc attkcctgtc 1260
cccaccccat cccaggtcac cacctggctg accccaggtc cccgacccaa caacaaaccc 1320
tccaagtcc ctaactcyct cacttggaact cgagactctt cagccccag cagcgctccg 1380
cctccaactt gacatcaygc tttctggaaa ctccccgta tgtcccaact tcccacactt 1440
ggtgccctgg aacactcccg gcctctaacg tgctgtatrt tcccctgcga amacctcctc 1500
ttggsctctg gccaaagtccc acccatctgt gggtaacaag ggggtgtsgg tgttcttttc 1560
agccttgcta aactstctga atcaaggatc acaaactaca cctgcaggcc aaatccagcc 1620
cacagcctgt gtttgtaaat aaagctttat tggaasaaag ccaaaaaaaa aaaaaaaaag 1680
gggggcgctc taaaagatcc tccaaggggc aagcttta 1718

```

<210> 1913

<211> 1975

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 1913

```

actctctnca ggttgaaaag cctctttatc catttaatcc tctctggccc tccttcccct 60
mcwgcgtgga tgcaactaga gagacaaatc gcctaggaag actgatcaat cacagcaaat 120
gtgggaactg ccaaaccaaa ctgcacgaca tcgacggcgt acctcacctc atcctcatcg 180
cctcccgaga catcgcggtt ggggaggagc tcctgtatga ctatggggac cgagcaagg 240
cttccattga agcccacccg tggctgaagc attaaccggt gggccccgtg ccctccccgc 300
cccactttcc cttcttcaaa ggacaaagtg ccctcaaagg gaattgaatt ttttttttac 360
acacttaatc ttagcggatt acttcagatg tttttaaaaa gtatattaag atgccttttc 420
actgtagtat ttaaataatc gttacaggtt tccaaggtgg acttgaacag atggccttat 480

```

1197

```

attaccaaaa ctttttatatt ctagttgttt ttgtactttt tttgcataca agccgaacgt 540
ttgtgcttcc cgtgcatgca gtcaaagact cagcacaggt tttagaggaa atagtcaaac 600
atgaactagg aagccagggtg agtctccttt ctccagtgga agagccggga ccttccccct 660
gcacccccga catccaggga cggggtgtga ggaagacgct gcctcccaat ggctgggacg 720
ggatgtttcc aagctcttgt tcccctaacg tctcaacagg cgctcactga agtgatgaa 780
tattttttta aaaggttttt gcagtaagct agtcttcccc tctgctttct cgaaagctta 840
ctgagccctg ggccccaaagc acggggccggg catagatttc ctcttcacac agctgccgct 900
tttctgggca ccttgaagca tcagggcgtg aaatcaaact agatgtgggc agggagagtg 960
ttgcttacct gccctgctgg ggcagggttt cctgaaactg ggtaattct ttatagaaat 1020
gtgaacactg aatttatattt aaaaaataat aataaaaatt taaaaaaatt aaaaataaaa 1080
aaaaccacag aaaacaactt tacatgtata taggtcttga agtgagtga gtggctgctt 1140
tttttttttt tttttttttg cttttttttg cttttttag aagagattga gaatggtact 1200
ctaatacaaa ataaagtttt gtagtgggac cagaaattac ttacctgaca tccaccccca 1260
ttccccctca tcctgctggg gttgaaagtt ccagacctgc tgtcgaggcc ttgtgtttgt 1320
cagacaccca gtgtcctcct gcaaggacgc aactgtgagc tgagggtgtga gcctaggagc 1380
ccaggacccc tgaccccggc cgctgctgcc agcctcagaa aggcacccag gtgtgcaggg 1440
gagcacacag ggcccggcag cccccaggaa tcaaggatag ggctaagggtt ttcaccttaa 1500
ctgtgaaggc aggaggaata ggtgactgct tcctcccgcc cttcacagaa ctgattctca 1560
cacactgtcc cttcagtcca gggggccggg gctcaggagc catgacctgg tgtctcctgc 1620
ccacctggtt cccaggtaaa tgtgaatgga gacaggatg agaggctgtc ctctcttttg 1680
attccccccc aaccccacct cgggcctcac gacgggtgcta cctaagaaag tcttccctcc 1740
cacccccgc tagcctgggtc agtggtcagc aaattggaag aggatccgat gggagtgtaa 1800
atgtgagaca caatgtcttg attatacctg tttgtggttt agctttgtat ttaayaagg 1860
aaataaactt gaaaattatt tgtcatcata aaaatgaaac aaattaaaat atttattgcc 1920
aggcaaaaaa aaaaaaaaaa aagttttggc ccatagttag tcctttacaa gtcga 1975

```

<210> 1914

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<400> 1914

```

gtacaagatg acggagccgg gcgcctctcc cgaggaccct tgggtcaagg tggagtatgc 60
ctacagcgac aacagcctgg accccgggct tttttagtaa agcaccgcga aggggagtgt 120
agtgtccaga gctaatagca tcggttccac cagtgcctct tctgtcccca acacagatga 180
tgaggacagt gattaccacc aggaggccta caaggagtcc taaaaagacc ggcgccggcg 240
cgcacacact caggctgagc agaagaggag ggacgccatc aagagaggct atgatgacct 300
tcagaccatc gtccccactt gccagcagca ggacttctcc attggctccc aaaagctcag 360
caaagccatc gttctacaaa agaccattga ctacattcag tttttgcaca aggagaagaa 420
aaagcaggag gaggaggtgt cacgttacgc aaggatgtac cgnccataag atcatgaaag 480
tgaactatga rcagattgtg aaggcaca 508

```

<210> 1915

<211> 2885

<212> DNA

<213> Homo sapiens

1198

<400> 1915

```

gggcacgagc ggctgctggc tcctcctcgt ccttgctctc gtctacttg tgagcccccg 60
cggctgccga gcgcggcggg gcctccgcgg tctgctcatg gcgcacagcc agcggtgct 120
cttccgaatc gggtagagcc tgtacacccg cacctggctc gggtagctct tctaccgaca 180
gcagctgcgc agggctcgga atcgctaccc taaaggccac tcgaaaaccc agccccgcct 240
cttcaatgga gtgaagggtc ttcccatccc tgtcctctcg gacaactaca gctacctcat 300
catcgacacc caggcccagc tggctgtggc tgtggaccct tcagaccctc gggctgtgca 360
rgcttccatt gaaaagraag gggtcacctt ggctcgccat ctgtktactc acaarcatct 420
ggamcacart ggarggaacc gtgamctcar ccggggggcac cgggactgtc ggggtgtacgg 480
gagccctcag gacggcatcc cctacctcac ccatccccctg tgtcatcaag atgtggtcag 540
cgtgggacgg cttcagatcc gggccctggc tacacctggc cacacacaag gccatctggt 600
ctacctactg gatggggagc cctacaaggg tcctcctcgc ctcttctcag gggacctgct 660
cttcctctct ggctgtgggc ggacctttga gggcaatgca gagaccatgc tgagctcact 720
ggacactgtg ctggggctag gggatgacac ccttctgtgg cctggctcatg agtatgcaga 780
ggagaacctg ggctttgcag gtgtggtgga gcccgagaaac ctggccccgg agaggaagat 840
gcagtgggtg cagcggcagc ggctggagcg caagggcacg tgcccatcta ccctgggaga 900
ggagcgctcc tacaacccgt tcctgagaac ccactgcctg gcgctacagg aggtctctgg 960
gcggggggcg ggccccactg gggatgatga ctactcccg gccagctcc tggaagagct 1020
ccgcccggctg aaggatatgc acaagagcaa gtratgccc cagcgcccc agcccagccc 1080
actccccgca tgggaggccg ccaccaccaa cacctcatca tccttctcat cgctaacacc 1140
accamctcca tcggcaccca agcgggcac atccccccac actgctcagg ggaggggagg 1200
gatcaggcga tgagactgtg aaggccaaaa gaagggggccc tgttgagggc tgggaacccc 1260
gcagcgcgag gctgcctcat caacggcaag aggaaaggag ggtctctcgg acatctccag 1320
accctaccaa ctgggagggg cccctcctcc ttccctactc ctgggacggc agcaaggaca 1380
tgggggctgc tgttagcttc tccgtcagrg gcctcatctc actgtagccc tggaaccag 1440
ggtccatctt gcccttcccc catccatggt tgggaaagaa gctcagcccc tcacagtggc 1500
ctcaagtgtg atgccttaca aaagcaccac tcagatgggc agctggactc tgggtgtcctg 1560
agactctgcc ctcttcccac agcctccctg cccaccccat ccttgcaaag ccatttttca 1620
gacagagcca ttccaaagaa cactgaaggg ctggaatgct ggctggccac tctctgcctc 1680
agtggcctcc ctacagcctg gaagaaggag ggtcctgatt gccaaagaaa cctcctcatt 1740
gggctaagga gacactggag tctggagtgt ggagccccac agtcttgtag gtcacatgct 1800
ctccttgcac atctggcctg gttgtaccca ctggcctctg cctctgcctt gggccaaaag 1860
ggccctcctt tgccagggga gagacagcca cggctcctctt tggccgatgc tgtattctca 1920
ttttggccct tgttcttagg cccgtctgcc cgccytctc catctaacct ttctgtttt 1980
atccgcagcc cttttcttct ttgagttagt aaagatttat tctgtaacct gacactcatc 2040
tggccctttg cagtttgcca gccatattcc catgtgattt cccactggat ccaggcccc 2100
atccggctgg caggaggggg ctctgacgtr caggttggaa atcagaagtc tgtgagagcg 2160
cgggagtgca tggcagctct gggctcccaga cctggcccga cccctctgct tcacctccag 2220
ctctgctgct cctctactct tgggtcgaga tccttttgga gccacagcga ggaacctgt 2280
ggtcctcagg cagggtgacc ttgagtcagc caggagccct cttttcctgt gtcaaagcct 2340
gccctcgggc tctgctcamc tctggtgacc ctccaagatg cccctgcctt cagtttcccc 2400
tcatgatctg gcctctgccc ccttctctag ccacagcctc tagtacactt tagcaatacc 2460
accagactag ttagagttcc ccatcacca agcaagacat gcagtttcat gcctctgtgc 2520
cttcgctcat gctgtttctt ccgactggaa tgccttcccc tgctcctcct gccttgctctg 2580
cctggcaagt tcactctctc cgatccccct aaaggccccc tcctccagga aggcaacccc 2640
tgtccccctc cctccaggc tacctctgca ctttgtcaat gcttctcttg tggcacttat 2700
cacactgtat ttactttgtt tacatgtttg tctccccttc tagactgtga atccttaagg 2760
gcatggactg tatcttatgc atctctgtat ttctgcgcct agcacggtgc ctagcacaca 2820
gtaggcgctc aataaatgtt gaatgaatga atgatttaac caagacttga tcacccaaaa 2880
aaaaa

```

1199

<210> 1916

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2235)

<223> n equals a,t,g, or c

<400> 1916

```

tgacatggaa agttgtatac caaaggagtc ttagggactg tccatggata ctgttatgta 60
tcatttcact tatattggct tcagcttgcg atttctctac tgtaagtggg gagaattgat 120
cagatagtta aggaagggtcc ttagataatg cagtatactt attaacatac agacatcaag 180
aagcagaaat atatagacat cttccttttt gggtctaata gggcttcgtg ggacacatat 240
gcaacatgcc tatgattttt acaagcctga tatgctatct gaatatccta tagtagatgg 300
aaaactctcc atacagtgtc acctcagtgs attagamcgc tgctattctg tctactgcaa 360
aaagatccat gccagtggtc agaaagaggg aatgataaag attttacctt gaatgatttt 420
ggsttcata tctttcactc accatattgt aaactgggtc agaaatctct agctcggatg 480
ttgctgaatg acttccttaa tgaccagaat agagataaaa atagtatcta tagtggcctg 540
gaagcctttg gggatgttaa attagaagac acctactttg atagagatgt ggagaaggca 600
tttatgaagg ctagctctga actcttcagt cagaaaacaa aggcactctt acttgatca 660
aatcaaaatg gaaatatgta cacatcttca gtatatgggt cccttgcatc tgttctagca 720
cagtactcac ctcagcaatt agcaggggaag agaattggag tgttttctta tggttctggt 780
ttggctgcca ctctgtactc tcttaaagtc acacaagatg ctacaccggg gtctgctctt 840
gataaaataa cagcaagttt atgtgatctt aaatccaagg cttgattcca agaactgggtg 900
tggcaccaga tgtcttcgct gaaaacatga agctccagag aggacacca tcattkggtc 960
aactatattc cccagggttc aatagattca ctctttgaag gaacgtggta cttagttagg 1020
gtggatgaaa agcacagaag aacttacgct cggcgctcca ctccaaatgr tgacactttg 1080
gatgaaggag taggacttgt gcattcaaac atagcaactg agcatattcc aagccctgcc 1140
aagaaaagta caagactccc tgccacagca gcagaacctg aagcagctgt cattagtaat 1200
ggggaacatt aagatactct gtgaggtgca agacttcagg gtkgggtgsg catgggggtg 1260
sgstatggga acagttggag gaatgggata tctggggata attttaaagg attacatggt 1320
atgtaaatth ttatgtgact gacatggagc ctggatgact atcgtgtact tgggaaagtc 1380
tctttgctct atttgctgac atgcttctg ttgtgggtctg gccaatgcca aatgtactcg 1440
aatgatgtta agggctctgt aaaacttcat acctcttttg ccatttgtat gcattgatgt 1500
tggtttttaa acatggtata atgaattgtg tacttctgtc agaagaaagc agaggtaacta 1560
atctccaatt aaaaaatttt ttaacatgta agaattttgt actttgaaca acaagattac 1620
agaaagtacc tgtgggtttt ggaaaacatt tctagcttgg ggaatgtgac aacattcccc 1680
agtgtggtaa aattggggta aaatgtggta aaatgtgata cgcacaaacc ctttgaaaat 1740
agcawaacaa acatgccctt tttctaaaat tgataaatcc taaagaggaa gaaaagagct 1800
gggacaataa aacactgggt ctggaatctg gaatgttaag tccaggccag cagtacaaa 1860
agttattgta atgacctctg aacagagaaa cactgccatt gaagaggctt ctggtataga 1920
aaacatggta cattcaggag ctgtgaatat agctctaggt gtgctcctga atcagttcat 1980
ggtagattat gctgaacaac agtgagatgt tattggaggt gtggatgagg gagtttgttg 2040
ttgcagtcct tctttgcacc ttatttttaa gaataaatga aacatttttc tggttacttt 2100
tttaaaaatt taaaatggaa gggaagaata ggggcagggc attattaggt tatttctgat 2160
gcttcagtgt tataaattca acatagaggc tgacaacctt aattcatggt gtaacacagc 2220
tcttttcctt ttcctttttt tttttttttt tggatatctg tcaatgaaaa taaggatatga 2280
cccaagtttt tacctagtct gactagaagt attccacttc aaggtctgaa gtaggacttt 2340

```


1200

```
taccttaaaa aacaacaaca aacaaaacta tcacacagga tagataagaa gattgggttaa 2400
acagttttgt gtagatcttt ttggtgctga actatgacat gagccttata gattgtaaaa 2460
tagggatagt tggaactaat gtacagaact aaatTTTTTTT aactttattt gctgttaaat 2520
tctgtgaagt ttcagttatc taaaataaat atacacaaat atgaaatata atgtttcaga 2580
ttgcaaggta atatgtaata gtagtggttg taagatactc ttgtctaata ttaactagta 2640
gtattttgat ttgtacagtc ataatttggt aaaatgactt catttaacat tctactgatgt 2700
agattaataa tgtaagttct gatttaaaga atgggtggsaa aatgggtgcat gtaatacttt 2760
tgcaagtgtt ggggagatcg gtatgttttg aaaagagtaa ttttaactttt gggtgccagg 2820
aaatgggttt tctcaaagtc cattgccggc aatgggcagg cctgcaaata ctggcacaga 2880
gcattaatca tacaccttat taacggtgag gtgaataact ttgaaataaa gtttttagaga 2940
aatgtttcar aaaaaaaaaa aaaaaaaaaa ctcgagacta gttctctctc tctcgtgccg 3000
ctcgtgcc                                     3008
```

<210> 1917

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 1917

```
gttcccaatc tgaagysgga gctggcgaga agtaggggag ggcggtgctc cgccgcgggtg 60
gcggttgcta tcgcttcgca gaacctactc aggcagccag ctgagaagag ttgagggaaa 120
gtgctgctgc tgggtctgca gacgcgatgg ataacgtgca gccgaaaata aaacatcgcc 180
ccttctgctt cagtgtgaaa ggccacgtga agatgctgag gctggatatt atcaactcac 240
tggtaacaac agtattcatg ctcatcgat ctgtgttggt actgatacca gaaaccacaa 300
cattgacagt tgggtggagg gtgtttgcac ttgtgacagc agtatgctgt cttgccgacg 360
gggcccttat ttaccggaag cttctgttca atcccagcgg tccttaccag aaaaagcctg 420
tgcataaaaa aaaagaagtt ttgtaatttt atattacttt ttagtttgat actaagtatt 480
aaacatattt ctgtattctt ccaaaaaaaaa aaanaaactg gagggggggcc cgtacccaat 540
cgccgtatat gatcgtaa                                     558
```

<210> 1918

<211> 1819

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1778)

<223> n equals a,t,g, or c

<220>

1201

<221> misc feature

<222> (1797)

<223> n equals a,t,g, or c

<400> 1918

```
gtctattagc ttttacctca aaattttaag ccagaactat catctttggt tttttatttt 60
ctatctttta acatttatct gtgaagtgc aaatggccta cagctgtgag agcaaagtga 120
catctcctcc tgaactctga gaagatgtca aaatccacag gcaacttcct cactttgacc 180
caagctattg acaaattttc agcagatgga atgcggttgg ctctggctga tgctggtgac 240
actgtagaag atgccaactt tgtggaagcc atggcagatg caggtattct ccgtctgtac 300
acctgggtag agtgggtgaa agaaatgggt gccaaactggg acagcctaag aagtggtcct 360
gccagcactt tcaatgatag agtttttgcc agtgaattga atgcaggaat tataaaaaaca 420
gatcaaaact atgaaaagat gatgttttaa gaagctttga aaacagggtt ttttgagttt 480
caggccgcaa aagataagta ccgtgaattg gctgtggaag ggatgcacag agaacttggt 540
ttccggttta ttgaagttca gacacttctc ctgcctccat tctgtccaca tttgtgtgag 600
cacatctgga cactcctggg aaagcctgac tcaattatga atgcttcatt gcctgtggca 660
ggctcctgtr atgaagtttt aatacactcc tcacagtatc ttatggaagt aacacatgac 720
cttagactac gactcaagaa ctatatgatg ccagctaaag ggaagaagac tgacaaaaca 780
ccctgcaga agccctcaca ttgcaccatc tatgtggcaa agaactatcc accttggtga 840
cataccaccc tgtctgttct acgtaaacac tttgaggcca ataacggaaa actgcctgac 900
aaciaagtca ttgctagtga actaggcagt atgccagaac tgaagaaata catgaagaaa 960
gtcatgccat ttgttgccat gattaaggaa aatctggaga agatggggcc tcgtattctg 1020
gatttgcaat tagaatttga tgaaaaggct gtgcttatgg agaataatag ctatctgact 1080
aattcgcttg agctagaaca catagaagtc aagtttgctc ccgaagcaga agataaaatc 1140
aggggaagact gctgtcctgg gaaaccactt aatgttttta gaatagaacc tgggtgtgtc 1200
gtttctctgg tgaatcccca gccatccaat ggccacttct caacccaaat tgaaatcarg 1260
caaggagata actgtgattc cataatcagg cgtttaatga aaatgaatcg aggaattaaa 1320
gacctttcca aagtgaaact gatgagattt gatgatccac tgttggggcc tcgacgagtt 1380
cctgtcctgg gaaaggagta caccgagaag acccccattt ctgagcatgc tgttttcaat 1440
gtggacctca tgagcaagaa aattcatctg actgagaatg ggataagggg ggatattggc 1500
gatacaataa tctatctggg tcattaaact catgcacatt ggagatttat cctggtttct 1560
taggaatact actactctga ttgtgtctac tgattggcta tcagaacctt aggctggacc 1620
taaatagatt gatttcattt ctaaccatcc aattctgcat gtattcataa ttctatcaag 1680
tcatctttga ttcttgacc taataaattt tttttccctt tcaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aanttcctgc ggccgcangg ctttttccct ttggtgnggg 1800
gttaattttg ggcttgggc 1819
```

<210> 1919

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

1202

<400> 1919

```

ggcaaaacca cttgcgcccc gactcaatga acttgtcata ctccacggac atcttgcagc 60
agagggcctg acgagtgcgc accgccgagc agttggtggt gatgacacgg tcgccgccct 120
ggagctcgag ctcaggggtcg tccccgtcgg tgaagataaa cgtctgctgg cggggccggg 180
agatccaggt gcgcagcagc agccgcaggg gcggcccgtg gttcttccgg gtggtcttga 240
cggcgatgaa gacgtcgtca ggccgcaggg tgggggcagc gggccggggc aggttcggaa 300
ttcttgcaaa acttattgtc cttgtcttca tttagcaaca gtggttaagta gttggaaacc 360
aagtatttat gtaagacaca catcacatgg tgatactcac atttatgtag aagtttattg 420
tttgaagttg ctttgtggcc atactttatt gtagtttkgg gatacagcta atgagtattt 480
ggsttttatt ctgattttat agtctgatta tttgggtcaa atcggnttag taggttaaatt 540
gagatgattt agtnggttaa ctacttagg tttttaa 577

```

<210> 1920

<211> 2115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<400> 1920

```

cagcaacgga ataaacgtgc aacatacgag cggatgatcca cagatgggtg cccatctctt 60
ctttgatttg ccctttattg cctaaccage caaaaccagt nggcactacg gaattttttac 120
caaaatcaaa gatgcgggtcg gtttccgtgt ccagccaacg gttgtggctt aggggtgtaa 180
accatttcat tcctttttatc ctcatcttag cggcggttag ccatcatttc gtcgaccan 240
gcgtccgatt aacactaaga tactctgatt tttagccraa ctaaacaag tgcttctact 300
gagaggcctt tataaccacca tgtacagtaa ctctaagtga atacggaaga ctttggtttt 360
gaaattctgc caccttggtt ctccctgctc atgagggtgc accttttgct cttgctgcta 420
attgccatt cgtagtgggt gtaatgccag gtggaatggg ttcaacaagt caggtgaaaa 480
ccatccttta ttgttgctgg cacaacttga tatatagtct gactcagaac tgaagctcac 540
atctcaaatt catttcatgc cagtaaattg ggcaaagaga agaaaggccc aagagcgaga 600
caagaagaat ggagaagggg gcagccaaga agaacttctg gggttcagggt actgtttatt 660
tgctccttct cttcatgcct gtggctggat gtcccacaac actataagaa atataagtca 720
agccctttgt gttaagcaag aactacagac tccatctttt caccctaatc atgaatgacc 780
aataaaaagc aagttattcc agaggaagaa gcagcccttg aaatgttaag gcttaggctt 840
gaaaggtgaa gagcaggaat tctctctttc aaatcctaga gcataaacc atgtgtggcc 900
aagtgagatc agccctcaag ggcacatgcc aagggcagag cagcccatgt agacagcttc 960
ggagggcatg ggggtgtagg gagttcgggg tagctcctca ttaactattt gttgggtgag 1020

```

1203

```

taaaggggtg aggcctcagt gcaggtacct ctgcaatgac aagctgcctc ccctctatgt 1080
gttttagcata tgttattaga acatgtccga cacccttacc gctgccattht gggcccttta 1140
ataaagccaa gtagagaaat ctggcaataa aaggcaaagt taagcatgct ttctttaaga 1200
cgcatcataa atggttttct ttaagtgaat ggaagagttt gacagagata cacccttgta 1260
agaaaacatt aagaatgctg gctggctgtg gtggctcaca cctgtattcc cagcactttg 1320
ggaggcctas gcwggaggat tncttgrgcc tgggmcttcg agaccagact gggaaacatg 1380
gcaaaatccc atctytacaa caaaaataca aaaattagcc aagtgcggtg gtgtgcctgt 1440
agtcctagtt acttgggagg ctgaggtggg agaatcacct gagcccagga ggtggagkct 1500
gcagtgagcc atgccaatgc actccagtyt gggcaacaga gtgagaccct gtctcaaaaa 1560
taaataaata aataaatgaa taaagagaat gctaatactt tctgggttca ctgcgactca 1620
ctgtagtgct ggggatcccc cttgtaacac tggaaactgaa agacagtgat gaaagctatg 1680
tcaagcattc attattctga agaggaggag aaatgccaca tacctttccc atgggacctg 1740
tggttgaatg aatccatact tctgcctcac ttcgagcaga cttttgttct cggcgctcct 1800
cacgatggag tttcatgctt cattttcaca tctctctgca caattagatt gggagctcct 1860
tgagggcaga gtacgtgcct taatctttat ctttgtaatg ccacaatgaa cagagtgcct 1920
cctggtacac tgtaggagct taagaaatac tcaactgaatg catgaatgaa tgaatgaaca 1980
aatgaaggaa tgactaagga tgttttagt gctataatat agaatgggat ttactctgct 2040
ttaccagtta gtttcataat aaacaaatag tctgtaaaaa aaaaaaaaaa aaaaaaaaaa 2100
aaaaaaaaagg cggcc 2115

```

<210> 1921

<211> 3953

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<400> 1921

```

cgcaggcggc gggaggccca ggagaagcgg tactactacg acctcgatga ctcttacgac 60
gagagcgatg aggaggaggt cagggccac ctccgttgcg tggccgagca gccgcccctc 120
aaactggaca cgtcctctga gaagctagag tttttgcaac tttttggctt gaccacccaa 180
cagcagaagg aggaattggg ggcccagaag cggagggaagc ggccggaggat gctgcgagag 240
agaagcccggt cgcccccaac aattcagagc aagcggcaga cgccctcacc gagactggcg 300
ctgtctaccc gctacagccc tgatgagatg aacaacagtc ccaacttcga agaaaagaag 360
aagttcctga ccattctcaa cctgacccac atcagcgcgtg agaagaggaa agacaaaagag 420
agacttggtg aaatgctccg tgccatgaag cagaaggcac tgtcagcagc agtggccgac 480
tccttgacaa actctccgag ggacagtcct gccgtctccc tgagtgaacc agccacgcag 540
caagcctctc tggatgtgga gaagccggtt ggtgttgctg cttccttgct tgacatccca 600
aaggcccgcg acctgggnaa gctggnaaca ggtccggccc caggagctgt cgagagtcca 660
ggagctagct cctgccagcg gggagaaaag ccaggctgag cgaggccctt ggaggcaaaa 720
agagtctgag catgcttcac tatatccggg gcgctgcacc caaggacatt cctgtgccgc 780
tgtcccacag caccaatggg aagagcaagc cgtgggagcc ctttgtggca gaagagtttg 840
cacatyagtt ccacgagtca gtgctgcagt ccaccagaa ggccctgcag aagcataaag 900

```

1204

```

ggagcgtggc tgtgctgtct gcagagcaga accacaaggt tgacacgtcc gtccactaca 960
acattcctga gctgcagtcc tccagccgcg cccctccacc ccagcacaat gggcagcagg 1020
agccccccac tgcaaggaag ggccccccaa cccaggagtt ggaccgggac tcggaggagg 1080
aggaagagga ggatgatgaa gatggagaag atgaggagga agtccccaaag cgcaagtggc 1140
aagggatcga ggccgttttt gaagcttacc aggaacacat agaagagcaa aatctggagc 1200
ggcaggtgtt acagacacaa tgtagacgac tggaggcccc gcactacagc ctcagcctga 1260
cggcagagca gctctccccc agcgtggcgg agttgaggag ccagaaacag aagatggtct 1320
cagaacggga gcggtccag gcagaactgg accacttacg aaagtgcctt gccttgcttg 1380
caatgcactg gcctaggggg tacctgaagg gatatcccag gtgacggttt cccttgcact 1440
aggccgaacc tatagtatat aaatattatc tattttatta ccttgaatat ttaatatattt 1500
tactggggag gtttgaagct tacaaaatga gaatgtgcca tgcataagc aaaggattcc 1560
aggctccaga aaaaatgaat gaactcacct tgacgtcaat gcaattgaat caccgttgct 1620
attcagcgag caaccaatgt aggattggcc acagtttttc tttttaaagg tggttttcgc 1680
ccttcctctc ccacattatt tcttaactctg aacatgaagg ctccattagc aacactaaaa 1740
cttgatcatt aacagccccc tgtgcatatg agtggatcaa accggttctg ttctttcttg 1800
tggtgccatg ttactatgcc tcaagcccag tttgcttttg cccagcgat gggggcagtc 1860
tcattcctcc ccaggagtga aacttgcttc agctgaaaag gttgggtgca tygtcagtaa 1920
aaagggctta tttgtttcat tttactttcc tgcaaaaatt tcttcaaagc aacaagtcct 1980
aggagcacac aaagcaaccc aaaggtttt ccctggaaaa gctctttctt acctaaagat 2040
aaaaccaatt cacaaactga aggtagcttt ttattactcc gtggggagca tgtacagagc 2100
tctgtgtata cacagcttca caccaccag attgttacta cagtgggttg ggttttcata 2160
cagacgtaaa ttttgagaga aaagtcaaag gtgcttcagc cttgtactgt gtatatatat 2220
taaaaaaaaa acaaaagttt gtatgttttt attactttta ctattgttat aaaaagcctg 2280
ccatttttaa tatgtggttt gggggatttt tgtttgtttt tcctgtttgg gggttttgtt 2340
tggtgttttg gttttttttg ggcaaaaaaa aaaaaaaaac cttgctttta gtgtttgtac 2400
tgctgtcgtt caggacatta aaatattgaa gtgtttttta aaattaaaga agaagaaaaa 2460
taaaagagct taccactggc gcctatgcga tcacttcatt tttagtttga gttgcaccag 2520
aagctgccgt agaaagccat gcgtactgac ttacctctc cactccccct gcctgcccc 2580
agcatctgga caagctaata gcaaataatta cccattgcta tcaagggagg agggggtagt 2640
ctgtagaacc catgtgtgac agtcatgtgc acacatgggc gggggctttt aaaaaccttt 2700
caggaagtca atgatttctg tgattgatat aattctaagg tgtctgagag caggtacaga 2760
ataggaactt cagaggcttt gtttaaacgc aaagctttgt aaaagccaca aggtctgagc 2820
tgaacccctc ctttttgaac ttactgtgac aagcacagga acggtcagaa actgggctca 2880
tcacaccaag gcaaaagcaac gggcgagtct tcctccttgt cctagttact gcctatggag 2940
gcagtgttta gatcaagaag gcctctcttg ctcccaaggg ccctcaccag aggccagggc 3000
tgccagtcac tggctcgggg ggtggaggcc tgagctgagg gcaggggtgc tgacctgtgt 3060
gccggctgct cactgctgtg accagcagcc gagcccttg ccctagccct tgctgcgcak 3120
aacagcttgc tggcagctgg catcgtgtcg ctttatctgc ccccgcacag tttgctttgt 3180
acgtctgcc aagaatcttc agttattagc aaactcagac gaatgtaccg ccagtattat 3240
cagcagtc aaagcacctt cctctccaca gaagcagctg gaagagaact cgaggggctg 3300
tgctgmaggc ctyccctcga aagacactgg gaggtcagca tgttccacag gtgttcagag 3360
ggagtctgct acaaaactatc agggcaaaaat ctcactggaw ttctccactg aaaacctact 3420
tgaggtttct ggtctgaagg cttaagagtc acatcttagc acttccgctc tcaggcctcc 3480
tcctccatca cagatgtctg gatgcttttg gaaatggcct tggctaaaagt aaaagggaaa 3540
agtagatccg ataacttaaa aacgtagctc atcccttacc atccaagggg cactcccttg 3600
gttggatttt ctatgacagc acaggggaca ggtggcacac catgagaggt ctgccaggg 3660
tgaggagcagt gtcactgtgc tagcaatagt tggcttctcc cctgtcagtg gaaacccac 3720
ttctgcccgg cccttgagct tcttggccac tgtctcccca tccttccacc tacttgtggc 3780
gatctgagta ctctactctt gctcaagaag taatacgmca atcagaatac aaaccagtaa 3840
ggcaacacga ataaactaaa aaaaaaaaaa aaaaaaaaaa aaaaaccttg ctttttagtgt 3900
ttgtactgct gctggtcagg acattaaaat attgaagtgt ttttaaaaat taa 3953

```

1205

<210> 1922

<211> 1992

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1955)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1989)

<223> n equals a,t,g, or c

<400> 1922

```
ggagcggggtt tcggttggag gactcgttgg ggaggtggcc tgcgcttgta gagactgcat 60
ccccgagacg atggcggagg gagataatcg cagcaccaac ctgctggctg cagagactgc 120
aagtctggaa gaaaaaccta agatgtactt catgaccatg atcgtttccc ttgctgcggt 180
tgcttgggtg ggacaacaag tccacaacct gcttctcacc tacctgatag tgacttcctt 240
actattgctt cctggactaa accaacaatgg aatcattttg aagtacattg gaatggccaa 300
gagggagata aacaaacttc tcaaacaaaa agaaaagaaa aacgaatgat tcatctgctt 360
taatcagtgt gattaatgca gcacccattg ccccggaac cgtttctgct gtactatctg 420
gatactaaaa tgttacggaa gtagctcttt gttctccctc actctgccct tagttaatag 480
aaattcagac tcgccaaagta aggcttcgtg catagtgtct tcatgtcgcg tatagttgag 540
cgcgttctta gcagtggct tcatggacaa ctcattagtg ttttgacttt tcttaccag 600
cgttaattga attcttgctt ttagacaact tcctttttgt agtgggtaac cttgcccttt 660
agtacagttc aagtgaatct ggataaattgt tcatctttgc tttagcttag ataccatgta 720
gtggtctgtg gctacaggaa gctggttctg tctgcttcca cagtctgctt aaaaaactgt 780
ctgacttcgt gaatatagag accaagttta ccacttctga tgaagagacc aattaagatt 840
cattcctcat tctgtttctt tccagtggga gaagagtccc catgaaataa gatgaaaactg 900
attccatgca ctagtacatg taggcttctc ccttgtgcaa agcttagcaa tttgtaggaa 960
actttgatct ttttgccaa gaaaaggaat gtctgacagg cttaagcttt cgtccccttg 1020
cacttagact cgaagttagt aaatccttaa aggcttttta atagcagact tccaaaagat 1080
tgcatttagg atttctagca tgcttttaat ttcagatttt cagctgacat tagctatagt 1140
atacagtagg ttaagactca tgtctatgac tttcactcta agactggcaa aaggacagca 1200
gtcttctatg tttagtcaat attcatttca gtagaagata atcttatcta atttttgaga 1260
ccagaataag ccttttaagg taaacctcaa aattatcatt ttatggtaat actgaccatt 1320
ttagtccctt aggtttgaca tgggagatag tgactacact ggtgtctgac ttttttctta 1380
gagattttct cctgaaaaat acaagggtg ttggtgagag cagacttgag gtgatgatag 1440
ttggcctctg gtctacaaag atttcataac tccttggaaa gcttcttata atcattctta 1500
acttcttggg agctagaaat ttagagtagt tgaaatcttt aggaatgaac ttctgagggc 1560
caaaaaatgt gactgacggg aacaattctt aaactgatta actagctgta atatagtttt 1620
gtgaatttat tgcactgatg ttgtaccttg tggatatctt gtccctatta aataagtgtt 1680
gttttctcct cttaaatatt gctgtgaaca gtggtgccca ttgtagcata tgtttgattt 1740
ttttttatta tttcataaga aaactacgtt aattttacct tactttcatt gtaaataagc 1800
ctgtcttcct atctggattt tttgtgtgca tacatattct actgattaac tacttttgca 1860
gttttaatcc tgtattattt cttctacttt gttttgtgta aaaggggaaa aaataaaaaa 1920
agctggaatc ttaaaaaaaaa aaaaaaaaaa aaacncragg ggggggcccg tmcccatctg 1980
ccccatagng ag 1992
```

1206

<210> 1923
 <211> 725
 <212> DNA
 <213> Homo sapiens

<400> 1923
 ctgtgccgat cgaatctata aaacaaacac aggaagaaat taaaagaaat attatggctc 60
 ttcgaaatca ttttagtttca agcacaccgg ccacgratta ttttctgcaa caaaaagact 120
 acttcatcat tttcctcctg attttgcttc aagtcataat aaacttcatg ttcaagtaga 180
 agttctctac cattgaatca gtgaactaga aagatctgat ttggcctggg accagtgttc 240
 aagttggttt ggtcttttatt aaaaatcaca atattccgaa aacaaaaaaa cctaggagat 300
 aaatgtagag gtattgactt ttcgtatctt ttatcttcac actgaaacaa gagctatcct 360
 atttgattat taaagtggag tatgtgttaa gtgccaggac atttctagct tttgtgagaa 420
 tgtgtctaca tatgagtata ataaaccac atgtatacac aattgtctct tatgtactcc 480
 tacctgacag tagtctttgt attctatagt atgttctgag atataatgtt aacattgttc 540
 ataacaaaa atgctatcaa tcttataaat atatgtaatc tattttcttc ataaaacagg 600
 cacaaaagtt ttatcagtaa ggrattacag rttgagaaat grtggaataa taggcattrat 660
 tgattcaata cactactgtt aaaatcmitt gcaagcactc agctcattat cttcttagga 720
 gaagg 725

<210> 1924
 <211> 2227
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (289)
 <223> n equals a,t,g, or c

<400> 1924
 cggacgcgtg ggtcgacceca cgcgtccggg aaaaarggaa aaratgccgt gtaaaatctc 60
 gttctgtgtc tgaattgccg taggctcaga tcttcatttg aggttctgtg tctgaattgc 120
 cgtaggctca gatcttcatt tgagggttatg ttctataagt taacgttgat cttgtgtgag 180
 ctttcggtag ctggagtaac acaggcgggc tcacagcgac ctctccagcg ccttccaagg 240
 cacatctgca gccagcgtaa tctcctggg agatgcctcc tcaaggccnt gctccagacc 300
 acgtggggar ggcctgacar ccaattccca ggctgtcccc acccttgrag agtgacccta 360
 aacgctagac agatggggaa tgggaaagaa aagaaagctg cagacctcaa gttaaaattc 420
 cctcaaaaac gttttttattt atctgtcttt tctgaaagga taaaggcttt ttgaaaatta 480
 ttttctaaca aataacatga acacttctag aaacctaga aaaacacaaa gtattcaaaa 540
 tagaaagaaa aattacccat tactctttta gccagcatta tccattgcgg tgcttttggg 600
 gttgggtgag gccgtagcct ctgccaaagtc aaggagcccg gtggtggctg tggcattcct 660
 gcagggttgt ttttttttct ttgagatgga gtctcactct tgtcacccca gctggaatgt 720
 ggtggtgtaa acagctcact gcagccttga ccctgaggct caagcgatcc ttctgccttg 780
 gcctcctgag tagctgggat ccagggcgag agtcaccaca ccctgtccat gttcctgcag 840
 gtcttgatat gcgaggacgc tgtgtcttcc ctgccacatt ttcttcttct ttcttgagac 900
 agacccttgc tccatcaccc aggccagagt gtggtsgtgc gaacacggct cactgcagcc 960
 tcgaccctca ggctcaagcg atcctcacgc ctccggacccc caaagtgcctg ggatcacagg 1020
 cgagagtcac catgctggcc tgaatcttca gggatatttta cggttgaagt gtcacttact 1080
 tarccatssc tgtttcaaga gtgtaggtgg tcaccctgtc tctgycgctg acctggcctg 1140

1207

```

gaccctcggc tgtgagaggg aggggtgggc tgggctggag gaacctraag ccctcgtgat 1200
gtcacaagcc catctggctg ggcattccct gctgtgtcct gagctgcaca tgccccaggt 1260
ggccccacaca gcagaggcga gccactgrag ggtgragggc ttccacggac ggtcttcagg 1320
ggragaagaa gggcccaggc ccccaggaga ctcaggagac cagagcctgg ggtcaggggc 1380
tyagcagggg ctyarccagg gctggatgtc cggagccagc cccmagccc tgkgktcttt 1440
gttcttcgca ctcccaccgt ccgtgtgaac agctccagcc ccacctgcgc ctccctgtgc 1500
tgggctccat cagggagccc agaagacgtg tgtgcttctg aaattgggtc cctacatgcc 1560
tttgtcccag tgcaccttgc tccttccatt tactatcgag atttaaagtc ctgttttctc 1620
cccagagggt gacggatata ttcagacgtt acgacacgga tcaggacggc tggattcagg 1680
tgtcgtacga acagtacctg tccatgggtc tcagtatcgt atgaccctgg cctctcgtga 1740
agagcagcac aacatggaaa gagccaaaat gtcacagttc ctatctgtga gggaatggag 1800
cacagggtgca gttagatgct gttcttcctt tagattttgt cacgtgggga cccagctgta 1860
catatgtgga taagctgatt aatggttttg caactgtaat agtagctgta tcgttctaata 1920
gcagacattg gatttgggtga ctgtctcatt gtgccatgag gtaaatgtaa tgtttcaggc 1980
attctgcttg caaaaaaatc tatcatgtgc ttttctagat gtctctggyt ctatagtgc 2040
aatgctttta ttagccaata ggaattttta aataacatgg aacttacaca aaaggctttt 2100
catgtgcctt actttttttaa aaaggagttt attgtattca ttggaatatg tgacgtaagc 2160
aataaaggga atgttagacg tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaa

```

<210> 1925

<211> 3911

<212> DNA

<213> Homo sapiens

<400> 1925

```

gacctaagcg tctaccgtca ccgctgccag ctcaagcgaa cccggcgacc tgctggagct 60
gctgtggctg cagccgcgcc ggagccgccc gcgcccgcgc cgcactgggc cgtctacgtg 120
ggcggcgggc agatcatcca cctgcaccaa ggcgagatcc gccagacagc ctgtatgagg 180
cgggcgcggc caacgtgggc cgggtgggtg atagctggta ccgctaccgc ccgctgggtg 240
ccgagctggt ggtgcagcaa cgtgcgccac ctgggcctca agagcgagga gatctgctgg 300
acgaactcgg agacgttcgc cgctgggtgc gctttggcaa gcgggagttc aaggcgggag 360
gggagggtgc ggcaggcacg cagccccgcg agcagcagta ctatctcaag gtgcacctgg 420
gagagaacaa ggtccacacc gccaggtttc acagcctgga agacctcacc cgcgagaagc 480
gccgtatcga cgcagcggc cgctgcgag tgctccagga gctcggcgac ctgctggagc 540
acaaggagta gccgcctagg ggtgcggc ccctctgcct ccccgccacc tcgctccctt 600
ccctcccccg cacccggaact tcgcagtcag cggttctcaa cctctgcccc gccccgccac 660
gcgcgtccgc cgcgggtggc ccgggcccgg gctgcacccc cgcattccca agccagcggc 720
aggaagtctc aggaactgcc ccagggccga aaggcgcccg ctgcgagcgc ctggctgaca 780
gccacagcgg tggtagcggg gctgggagac ccgcgtgcg ctttccccct gagatgtaaa 840
cgggaacgg ggaaggggct gaggggagaa aggacatggc ctccccgcg agtccatggc 900
cagtgactgt ggcccgactc gaaaacaacc ctcttctcaa aagggaccat caccgccccg 960
agcgtgcgca cacagaccgg tcggaggcga gaactggtct ctacagggca cagttcagct 1020
cctctgtgga tgctcccca gatcgagga tttccaagaa atcgagcctg tcccttgtgc 1080
acttggaat aattcccca gacagcactt cgggattccg ggttatcctg aggctgcccg 1140
ggacttttcc agctctccag ccccaggtyt cctgacattg tgttccaggc tcggggctaa 1200
gccagacagt gtttgccctc ggttctttcc accgtgggaa gcgaacgcca cccccaccg 1260
cctttgcctg cgagtctccc tcgctggcag aagggaagcc ggcccggctc cgggaggaag 1320
atggcgctgc gaattcgggtg aggacagccg gccccgcccc cgacaaggag ctgctcgtt 1380
cacctggtgt ctgggaactt gaatgtgtga agggcgctta ttgttctgaa cccttgattg 1440
ctccctccyc gggctgcatt tcaaaaatag tcatattttt aaaggagttg gaggagaggg 1500

```


1208

```

aggggggagga catggcacca ttccagaaac cagcattggtt acaacacccat agccagtata 1560
tttagtttgg cttttcctaa catagaaatc ttcaaagctg gggaaagtga aataaagttt 1620
taaaaatgag agagcagttt tccaactatg tcaacaaagc ctatcgtgtt gatgttttta 1680
ttgaccattt tagcaacagg ctaataaaaat ttcaaattga aatttttatt ttcattggctt 1740
taatccatga tagtttaaat actggggggcc attaagagtgt gatgtagcta agagccttagc 1800
taacattgcc ttttctactct atttttctca gatattgtaa gcattctgtt tttcaatatt 1860
gtagttaatt ttttggcttt caacagcagc cctagtaatg gtggagtgtt taattaatgt 1920
gtatattgta ctgaatttct gtcagttaag gggttcactg ctttggtgga aattgggtgga 1980
aattgctagc aggttccacg atgtttatct ttttctccat gttgtatatc attaccattt 2040
cacatacgcg tttctatttt tcttctctct ctcctgatct ccttaaaaaat gaatctagag 2100
ttggtggctt tttccccctc ctctttggcc agttccacag ttcagttctt cctgaaaaca 2160
gggatgatga acttgttagga tcaggacaaa tgtgtgtttt tcaaaaactt aaggctgggt 2220
gtgaaacacc ttctgtggac aaggatttgt aaacttctct cctccctcca gctgcggccc 2280
cagcctaact gatagttact tgattcagtg tgctagacac ttaaatagca tctatgtctc 2340
tttcaaggga atttgtcaaa taatgctgtt tagctaattg ttgcaagcaa ttgcatatta 2400
acagctgtga ttttgttgga cagcaagtat tatggccaaa gccagtttct tggcatttca 2460
aaaataatgc aataaaaaact agttgagggt agctgaggct ggaaatgcct ttttcatggt 2520
aaatgattca cttctatatt tttctttctt tttctttttt tttttttggt tttcatcctg 2580
gattcatccc ctgatcttaa atcaaaacgt cagatcaatg aactatgaac taaagtattt 2640
ttcttaagcc tattgagtga tttatttttt aaaaaatgtt taaatgcata tgcttttctt 2700
tcagcacaaa caacagcaaaa aacttttgta ataactaact tacctttgca tgtatgaaga 2760
actgagtcac ttatttccct aacttactcc tctttcaagt aacagggtggc agatcataaa 2820
atgaattctt tattgtatct acacactcca cattctttac tgtgtcctac tactgtatct 2880
tggctccctg ctgtattaaa caccatctta agcacttggt cctgcaggac tccttcttga 2940
cattttgtct ccccttcaa agtcaactcaa agagtgggac ttcatacaaaa gaaatgaatt 3000
agtctctatc acaccgaata ctaagattta tttcctctga tggtagatag atttctctct 3060
cactaagagg gtcactctca tagaggaatg tcttgtcagt tttatacttg ctgaggctag 3120
actgacaata aaaatgagct gggcagttta attagcattt gttactatat tggcctataa 3180
aggatcaggt tgatgataat acctctaaaa atatgcaata ataaaaaat agttatgaaa 3240
gaaacttgaa aggtttgcaa ggtttctcct atccctgtta aaattatcat ttattatctc 3300
tttgtcagtg ttagtaagggt aacctatgac agaataattt gagtgatagt tcatcatgca 3360
gaggatatga tcaagatatt acctaatggt tttatcctga aaaagggtga tacttttagg 3420
gcactgttaa caatgagct gaaaccaaga tgggtgcaagt tccctttgca gatggcgtgg 3480
gcacacttga tttttattat gagtgaatgt aatctttctg tattttacca gagttacagc 3540
aattacctga aaagtttctt aacattttta taatgttagg gatttcgttt tggtttttagt 3600
tgtcctcaag agacaacagg ttcacagtaa tttccatgat gttgggtgtg gctaagctgg 3660
ggattgggtc tgttccccct gctcccgtgt agagaaaaagc tatatttata ctgcattctt 3720
tctcaacttt caggtaaaaac aaactatgat ttaaaaaaar aaaaaagaaa agacagggtac 3780
ttttacttca aagagtgtct tgytacattt ttattttaaac caaaaatcaa ataaaaataag 3840
gaggggggct ggggtatactt taaacaaaac cagtcctgaa atgctgttay tctcaaagtm 3900
cattccaaaa a 3911

```

<210> 1926

<211> 1041

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

1209

<400> 1926

```
aaaagtnaaa aggaacaac gggtagcctt aattcaaata ttctaccac catagctaca 60
aaataaaaaa aactaattca acaaatgtac ttatytaacc caatatatcc caacaattat 120
tgcagcacat aatcaatata aacattatat atatgaacta tttgacacta tttgacattt 180
cttcttccac atccagtgtg tctgacattt agcgacatt tgatttgacac tcacccactt 240
tgaggagctc aattgccgct taagtccgtg gctagtggct gccctaaagt tcagcaccgc 300
cacggagctt tgggtccacc cggactgtaa aaaggaagca cttccgtag catgaccggg 360
cctgaagtag cggcggaacg gaagtcgctt gtgtatgaac gcagcggcgg acctgtgagg 420
ggatccgact tgccggcaga acttacgctg cgggaccccg ggcaactgtt ctgctgcggg 480
agactgtggg ctgttttagtg ccatgcaccc ttacagtgt gtccccaag tgcagaggtc 540
tctgggggtg ggaccatttg cctctgtgtc ttggctgtcg ctgaggatgt gcagggcaca 600
cagcagtctc tctagtacca tgtgtcccag tccagagagg caggaggatg gagctcgga 660
ggatttcagc tccaggttg ctgctggacc gacttttcaa ctttttttaa aaagtgcctc 720
agctcctcag gagaagctgt cttcagaagt ggaagaccca cctccctatc tcatgatgga 780
tgaacttctt ggaaggcaga gaaaagtcta cctcgagacc tatggctgcc agatgaatgt 840
gaatgacaca gagatagcct ggtccatctt acagaagagt ggctacctgc ggaccagtaa 900
cctccaagag gcagatgtga ttctcctgkc acrtgctcta tcaggagagaa rgctgagcag 960
accatctgga accgttacay agsttaaagc ttgaaacaag cggcccgytc cgggttccty 1020
gaggatggaa ttaggttgat g 1041
```

<210> 1927

<211> 2310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2309)

<223> n equals a,t,g, or c

<400> 1927

```
tttttttttt tctgttcaaa aaagggtttta tccaaaaaag ttaatcaaga caagcaacag 60
atactgcaaa gcattatata cagcaccata gtccaggggc caaagaaatc aggaggggct 120
gggcagtaga ggaattccat atattaatga atgtgagatt aagtatagag tgaagacatt 180
aacacacaat tctaatttct gttaggcaga atgctcccct accctgatgc cacagccttt 240
cacgtttcct aaaccctagt aacctctgat ctccatctgc ctcatcaaca cgtcaccacc 300
ctttgctctt cttccaatta gtcacatgtt ggctgaattt atttactcc agtacttttag 360
gaccttgaca gacaaatcga ttacaaggtc aattcccagg atttcttcag ggtgtgttca 420
ggagtgcaga tgttcttttg atgacctttc tactaaatta gacctctgaa ggagaaagct 480
acttgccaga ggctttccct gagagcatta ggttgggcaa aatctgacta aaatttaatt 540
```

1210

```

actaaatgaa agtgtgtacc ttagagttcc tggccagagt tgactctagg tagtgatgtg 600
atcttcttgg gatgttttcc taaatattct tttatgctaa agcacatggc ttgatacttc 660
tggttgattaa gctcgtgtct acttacagtc atctagttag aacctgtggg gtggtgagat 720
gataacttgg tctttggtct tcatcatttg aactagtttt gggtttgtct tgtcccttcc 780
ttgagcattt tgtgtgtggt taatcctatt tggtaaacga accactgtga aagaccaagt 840
tggagaaaaac agaacacccc caaaacattt attttttttt ttagaaaatc atgggtcact 900
atggtagtat acaatattgt tttcacacat gtacacttga aaccaaattt cccataatcc 960
cctacatccc tactctcatc actcagctta cacagaagct attagctggt agtaagaacc 1020
caagcaaacc tcactttaat cactacatgt ttgaagcaat atgtttatcc ataagaataa 1080
cttgcaaaagc taaccctgct gctgttgtaa attttgagga ggctttgttt ttggtgttta 1140
ctgaaatctt acaaaatgat gtgcaagaat ttattccata cgtctttcaa gtgatgtctt 1200
tgcttctgga aacacacaaa aatgacatcc cgtcttccta tatggcctta tttcctcatc 1260
tccttcagcc agtgcttttg gaaagaacag gaaatattcc tgctctagg aggccttctt 1320
aagcattctt agaacgcggg tcaaacacaa tagcaagtgc tgcagctgac aaaattcctg 1380
ggttactagg tgtctttcag aagctgattg catccaaagc aaatgaccac caagggtttt 1440
atcttctaaa cagtataata gagcacatgc ctctgaatc agttgaccaa tataggaaac 1500
aaatcttcat tctgctattc cagagacttc agaattccaa aacaaccaag tttatcaaga 1560
gttttttagt ctttattaat ttgtattgca taaaatatgg ggcactagca ctacaagaaa 1620
tatttgatgg tatacaacca aaaatgtttg gaatggtttt ggaaaaaatt attattcctg 1680
aaattcagaa ggtatctgga aatgtagaga aaaagatctg tgcggttggc ataaccaaaat 1740
tactaacaga atgtccccc aatgatggaca ctgagtatac caaactgtgg actccattat 1800
tacagtcttt gattggctct tttgagttac ccgaagatga taccattcct gatgaggaac 1860
atcttattga catagaagat acaccaggat atcagactgc cttctcacag ttggcatttg 1920
ctgggaaaaa agagcatgat cctgtagggt aaatgggtgaa taaccccaaa attcacctgg 1980
cacagtcact tcacaagttg tctaccgcct gtccaggaag gggtccatca atgggtgagca 2040
ccagcctgaa tgcagaagcg ctccagttat tccaagggtg ccttcaggca gccagtgatga 2100
cactgcttta aactgcattt ttctaattgg ctaaaccagg atgggtttcct aggaaatcac 2160
aggcttctga gcacagctgc attaaaacaa aggaagttyt ccttttgaac ttgtcacgaa 2220
ttccatcttg taaaggatat taaatgttgc tttaacctga aaaaaaaaaa aaaaaaggg 2280
sggccggacc caatttnccc taaangggng 2310

```

<210> 1928

<211> 421

<212> DNA

<213> Homo sapiens

<400> 1928

```

gtgctgccgc ctcccgtcgc ccctgcgctc agaggtcccg aaccagccca gccgctgcct 60
cttgccgctc cgccttttga gtgaggaggg cgcagcccg gtcagaactt agagggccag 120
gcagggtcgc gcgcatggcc tgggctgggt cgcggcggtt cccagctggg acgcgcggg 180
cagccgagcg ctgctgccgg ctctcgctca gcccgggcgc gcaaccggcc cgccccaggc 240
cctctgcacc gccgcgacca atgaggtttt tgacctcttg carcctctc ttgcctcggg 300
ctgcccagat cttggcggst gargctggct taccttcgas ccgttcctty atgggatttg 360
ctgctccctt caccaacaag cgaaaggctt actcggagcg tagaatcatg gggactcaa 420
t 421

```

<210> 1929

<211> 1283

<212> DNA

<213> Homo sapiens

1211

<400> 1929

```

gcacggcgca gtgaatacaa gaaaggggca ctattttaac acaacctttt cccgtgatca 60
ccaccgaaaa ttactgacga gtcaatcacc tcagatctct caagcagtcc agcctacgca 120
acagtactcc acctctgcgc ctgtgcgggg agggtaaggc ggggccagca acttcctcag 180
ctggaggagg agcgcacggg ggagccgcca gttgagaagg actctgatcc ggctcagctt 240
tccaatcagc tgcggaagga gccacgcttt cgggggttgc aagatggcgg ccaccagtgg 300
aactgatgag ccggtttccg gggagttggt gtctgtggca catgcgcttt ctctcccagc 360
agagtcgtat ggcaacgac ctgacattga gatggcttgg gccatgagag caatgcagca 420
tgctgaagtc tattacaagc tgatttcac agttgaccca cagttcctga aactcaccaa 480
agtagatgac caaatctact ctgagttccg gaaaaatttt gagaccctta ggatagatgt 540
gttgagccca gaagaactca agtcagaatc agccaaagag aagtggaggc cattctgctt 600
gaagtttaat gggattgttg aagacttcaa ctatggtact ttgctgcgac tagattgttc 660
tcagggctac actgaggaaa acaccatctt tgccccagg atacaattct ttgccattga 720
aattgctcgg aaccgggaag gctataacaa agctgtttat atcagtgttc aggacaaaga 780
aggagagaaa ggagtcaaca atggaggaga aaaaagagct gacagtggag aagaagagaa 840
caccaagaat ggaggagaga aaggagctga tagtggagaa gaaaaagagg aaggaatcaa 900
cagagaagac aaaactgaca aaggaggaga aaaagggaaa gaagctgaca aagaaatcaa 960
caaaagtggt gaaaaagcta tgtaagggtat acagggaaca gcactctaga agctatgact 1020
caattgagac tacaagtacc acggtgctac ttgcacagac ccctttggtt aaatgtaaata 1080
tcttgtacaa ttgaaggata cgcagaagga catctttcta gtctaacagt caggagctgc 1140
tctggtcatt cccttgtatg aactggtcta aagactgtta gtggggtgtt agttgatttt 1200
tcctggtata ctgtttcttg gctgacacta ctggtcaagt aagaaatttg taaataaatt 1260
tcttttggtt cttattatct aaa 1283

```

<210> 1930

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (667)

<223> n equals a,t,g, or c

<400> 1930

```

gaatgatcag tatacaagat acagtatttt ctagaaaaac tgtctctgat tctggacaaa 60

```

1212

```

gctcagttat agttacgaga aagatatggt acagggagga aaatactgcc tttttttttt 120
ttttaagag attttcagac taaatagaaa tgtcaaatg atgtatcaat ggttcctttt 180
tagaacaagt tttcaaagca taaaaagagg ttgagagaaa taacatattt attgattcac 240
ataagtatgt ttttcttcat taatcgtctg gagaaaccca cttgtcatta atttgttttg 300
ggctaggttt tcaaacttac caaattgctt taaaaaagca atttggaagg taatttgata 360
ggctttccaa cttaaccaa ttttttattg taattcttgg atagtatttt tgtctttttc 420
aattcatttg tctttttcag tatagttttt gttaaggcaa atgtcttccc ttaatatcca 480
aatattgcta ataaacggta gaagatgctt tnggaaatta aaattatctc gctgktggtt 540
agacttaaca ctgktaatct tyagccaaat atcacatatg gatcaaatta ttttctnttt 600
tgttgtttac ctatcctcaa caacattttt agtttaaat attgtaaana tttttttgtg 660
ggtggttatt tttatttgct ccaaaataat aagggtgcaa ctattttatg cttaactggt 720
gctctgtcaa aacactatgc atggattgca tttgaaaaaa aa 762

```

<210> 1931

<211> 1633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1605)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1618)

<223> n equals a,t,g, or c

<400> 1931

```

tgcctctnat tttaggctga ggccgtccaa agcggccatg ccccatgttt ccactagatg 60
gcgctgacac ttcaggcatc aaccctcatg gcctctcagc cttgcaaagg cagccactta 120
aagtcggtgt cctgtgtggg gcaccaagct gagctgcaga caccagtag gcgagaggca 180
aatgcgtccc attttaagag gcttgtattt atgagctctt tgcttctctc ctcccactaw 240
ctttaaagaa ttgctctcca tctccttttg caaagttcct ttgccctttg tcttattttt 300
gtgaaacctc caaggatatt ccagtcattt tgcattccaa ctggcatctt tacggagagc 360
ggtctcatat gctattgttg ttaacgtgga ctagtattta tgtgttgaga aactggctg 420
tttgtmagga aaagtgtgcc aaaacaaaga gtacggccgg ccctggaaat gcacagcaa 480
aaccattttc ccccggtgcac tcattctgag ctctcttctc tcatttctgt cattactgct 540
gagaactgga ctgtgccag ctgacctttc ccttcttgc cctcatcttg ctgccagggt 600
ctgcagggtt gccaccgtcc cggccccagt ctgaaacatg ggattatttc agaattggag 660
gtggcagctt cagaaaaaaa tccttctcgt gtgttgactg ctgagatcca ggaactggga 720

```

1213

```

aatcaacccc cagttttag attgctctct ttggaaattc tgtggcccaa cctcgtggct 780
gttttctgga attccttcta tcggggcaga cagtgtgtgt cctttcttga cttcaggatg 840
ttccaaggat gctgtcggat ctgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgc 900
gtgcgtgcgt gtatgtgcgc ctgaccctga tttctgcaac ctccagattt ctttcttgac 960
ccttcaaagt ggaacagtcc agtgccaaaa atttttagagt ttgagaaggt cacagaaatc 1020
ctctagttag tgccctccaca gtcttcattt tacagaggaa ctcagggcta atggagttaa 1080
tgcaactaga tcagggtttt ggtctgtgt tctttctacc gtcagcacct gtgtgggtcaa 1140
ttctggacac ttcccagaga agtccttgag tagagaatcc tactcaaatt tcaactgtata 1200
ttttaagcat tcctctcctt tccctttgcc tccctgttg ccttttcttc ccctgatttc 1260
tcctctggtc atctcctctc ccttctgcgt gtaagccatg ggaaagggat gagggaggac 1320
agcttctggt taaacacagg tccctcttcc acatcaaatt aacattggct tcctgggaca 1380
gaaggccttc aaaggaggga ttgcaaagca aggcaaagcg ttctgtcttc attttcccca 1440
tccccatgag acaagactga tggaagggt ggtggggcaa cactgcttaa tggatgcctt 1500
ttcacatcat ttcagttttt agccctcatg actgtatttt ctaatcagag acaataacat 1560
tttaaataaa acaacgacaa agaaaaaaa aaaaaaaagg gggcnccct caaaggancc 1620
aacctttctt acg 1633

```

<210> 1932

<211> 1126

<212> DNA

<213> Homo sapiens

<400> 1932

```

ttcgttttag tcggctggaa attatgtcct ccgtcggttt tccgcagttt ttccaccaag 60
cgagatattt ttgggagtta ttccctaaat aactgcatta tatgctcctt tcatgacgaa 120
attgctgccg tggagaagac tggaggaaac tcgaggaaga gggagaagcc gacaagtgtc 180
cgacgggcta ggaactgtcc tgcttgggtg ttagcgtttc ccgycgggce agtaaggctg 240
agtgasccgg cgtggctact aggagaagga cgtacggtec tgctagtaga ggaatatgtc 300
gagtttctct agggcgcccc agcaatgggc cacttttgcct agaatatggt atctcttaga 360
tgggaaaatg cagccacctg gcaaaacttg tgctatggca tctataagac ttcagggtt 420
acataaacct gtgtaccatg cactgagtga ctgtggggat catgttgta taatgaacac 480
aagacacatt gcattttctg gaaacaaatg ggaacaaaaa gtatactctt cgcatactgg 540
ctaccaggtt ggatttagac aagtaacagc tgctcagctt cacctgaggg atccagtggc 600
aattgtaaaa ctagctattt atggcatgct gccaaaaaac cttcacagaa gaacaatgat 660
ggaaagggtt catctttttc cagatgagta tattccagaa gatattctta agaatttagt 720
agaggagctt cctcaaccac gaaaaatacc taaacgtcta gatgagtaca cacaagaaga 780
aatagacgcc ttcccaagat tgtggactcc acctgaagat tatcggctat aagagaataa 840
gaattgcaga aaataacagt gaagtgattg aaactttctt ctgatgagtt tctctaacct 900
acaggatgga gtaaaacaac tgctacagtt cagcacctgt tttatgtgcc gaatcactgt 960
ggggaaagggt caggaagggt tagtccttca ataggaaatt gtaattaaaa tataatttta 1020
tagaaccatt tttatgtaat ctgatttgaa tgttatagtt gataataata aaatcactta 1080
cttggttgac tatttagtgt tgcatttaat gataaaaaac agaccc 1126

```

<210> 1933

<211> 1797

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (378)

1214

<223> n equals a,t,g, or c

<400> 1933

```

atttctcaaaa gagtattaca ggcggtgacac cactcttggc ccagcctgtg ggttttgatg 60
gggatgtctt ggctgctgtc ttggaggcac agtgtctccc catgtgtgtg tttcttggcc 120
cagagtgact ccagtatctc ctagtctctc cccacaggat agtcacatcc attatttact 180
tttgttgtca gctgggaggg gaaactgaag cctggacacg tctccccaag ggctcagtgt 240
tcatgggtgt gtaagatcca ttgactggac cccagaaaagc accctgaggg gcagtgcaga 300
gagagcccag gaagcccctc cactagagga ggcccttggc ctggctgagg accacgtcac 360
cctgggcctc cagsctgnct tttcacatta aaggcggggc agtctcctct caaaggagtt 420
ctcccttgag cactttgggc tctggggcag agttgggcta ggagatctgg gtgaatcctt 480
tagtcacagc tagtctcatg ttctcttctt gtcaaagggg tcatggcccc agtgtgtcct 540
acctcagagt tgtcagggtc aaagtaacag gcactgggac aaatatgaag cctagctttg 600
tgcttccttt caaattcagg gcctcccttc tactccattc cagccttttt ttctgtcag 660
aatccctcag gaaggacctt tatcttctgg agtgagtggc agttccactg gggtcagtga 720
aagagtcgcc catggggctc tgttccccag gagtcctttg tatttttggtg aacaaaattct 780
taccaaaagca tgagattcgg actgtagaag ttcagactgc ctcagttcag actgcctcat 840
ggggcagctc ggaggtcagc tggcttcttg tgtctctcat cacaccactg cggacgctgt 900
ctgtagagca gccttggtgt ggggtgactc gaagctggag tgatgggacc ccagctatcc 960
ttgtttttta ccgccttgct tggcactgtg accacgcttc agggctgctt ctgggggtct 1020
tggtccttg atgtgccatt tccttgccct tctgaccctc acacttcttc caaagtcttg 1080
agcagagttg ggggccaatg gtagcattgc tgtcatctct gggaggagag tgagtataca 1140
agtcagtgc agttcagcca ggctcccttg ggtttgggaa gaggcactgc ccttctgtgc 1200
tgtggatcct gcttgtctgc tctggagtcc cccaccctt gccaggagct tcacaaacca 1260
gagacgggct gtcagcaaga gtcagacag gatgtggtgc aagtgcaggt gcacgagttt 1320
aaccctcagc tgcaggagct agtctcaggt gttctgggga tgctcaggc taagaatttt 1380
gccgactttc tgggcttggc tggctaatac caaatgcccc tgcttaaata tcacaagggtg 1440
ctgattctcc ttttttcttt ttttcatacc aatgtgctca aactttgagc taggtcttgt 1500
gagtttgcct agcactcaga cctgtttaag taacgttctt tacattgaaa caagtcaacc 1560
gaagctttgt ggtgcaggag ctgagggtgc cccagactca gtgggagccc tggttgggcc 1620
ccaaactctc ccagcagggc cctcggtttc ctcatctgtg aaataaatga gtgggccacg 1680
acgttaataa gcccaagaga actgtgaagg tggtagtccc ttgccctaata tgggtgctcaa 1740
taaagttgtt ggcataaacg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1797

```

<210> 1934

<211> 337

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1215

<222> (335)

<223> n equals a,t,g, or c

<400> 1934

```

ttcaggtgac actcatagaa ggtacgcctg caggtaccgg tccgraattc ccgggtcgac 60
ccacgcgtcc gcacattagc aacaatgtac attaatTTTtTg gattttcatt ttcattgtttt 120
atTTTtGtaaa tattatctga tGTTTtGgagc ttgagtatac agactgtaaa tatagtttctt 180
gtatttGtac taattctgat tctTTTtGctg tatagcctta gatgtgcaat gcagacacta 240
tctaactgtg tgtgggtaacc ttgcgtcacg gagctgTtag tgaacgaggT aaaaataata 300
aaggtacagc cagtngcatc aaaaaaaaaa anaanaa 337

```

<210> 1935

<211> 1330

<212> DNA

<213> Homo sapiens

<400> 1935

```

gctgcgctcg gctgagtcag tcagtctgtc ggagtctgtc ctccggagcag gcggagtaaa 60
gggacttgag cgagccagtt gccggattat tctatttccc ctccctctct cccgccccgt 120
atctcttttc acccttctcc caccctcgct cgcgtagcca tggcggagcg tcggcgggcca 180
ctcagtcocca ttccatctcc tcgtcgtcct tcggagccga gccgtccgcg cccggcgggcg 240
gcggggagccc aggagcctgc cccgccctgg ggacgaagag ctgcagctcc tcctgtgcgg 300
tgcacgatct gattttctgg agagatgtga agaagactgg gtttgtcttt ggcaccacgc 360
tgatcatgct gctttccctg gcagctttca gtgtcatcag tgtggtttct tacctcatcc 420
tggctcttct ctctgtcacc atcagcttca ggatctacaa gtccgctatc caagctgtac 480
agaagtcaga agaaggccat ccattcaaag cctacctgga cgtagacatt actctgtcct 540
cagaagcttt ccataattac atgaatgctg ccatggtgca catcaacagg gccctgaaac 600
tcattattcg tctctttctg gtagaagatc tggttgactc cttgaagctg gctgtcttca 660
tgtggctgat gacctatgtt ggtgctgttt ttaacggaat cacccttcta attcttgctg 720
aactgctcat tttcagtgtc ccgattgtct atgagaagta caagaccagc attgatcact 780
atgttggcat cgcccagat cagaccaagt caattgttga aaagatccaa gcaaaaactcc 840
ctggaatcgc caaaaaaaaaa gcagaataag tacatggaaa ccagaaatgc aacagttact 900
aaaacaccat ttaatagtta taacgtcggt acttgtaacta tgaaggaaaa tactcagtgt 960
cagcttgagc ctgcattcca agcttttttt ttaatttggg gttttctccc atcctttccc 1020
tttaaccctc agtatcaagc acaaaaaattg atggactgat aaaagaacta tcttagaact 1080
cagaagaaga aagaatcawa ttcataggat aagtcaatac cttaatggtg gtagagcctt 1140
tacctgtagc ttgaaagggg aaagattgga ggtaagagag aaaatgaaag aacacctctg 1200
ggtccttctg tccagttttc agcactagtc ttactcagct atccattata gttttgccct 1260
taagaagtca tgattaactt atgaaaaaat tatttgggga caggagtgtg ataccttctc 1320
tggttttttc 1330

```

<210> 1936

<211> 678

<212> DNA

<213> Homo sapiens

<400> 1936

```

ccggcaggtg acaacggcaa catggccctg aacggagctg aagtcgacga cttctcctgg 60
gagccccga ctgaggcgga gacgaagggtg ctgcaggcgc gacgggagcg gcaagatcgc 120
atctccccgc tcattgggga ctatctgctg cgcggttacc gcatgctggg cgagacgtgt 180
gcggactgcg ggacgaccc cctccaagac aaacagcgga aaatctactg cgtggcttgt 240

```


1216

```

caggaactcg actcagacgt ggataaagat aatcccgcgc tgaatgccc ggctgcccctc 300
tcccaagctc gggagcacca gctggcctca gcctcagagc tccccctggg ctctcgacct 360
gcgccccagc cccagctacc tcgtccggag cactgtgagg gagctgcagc aggactcaag 420
gcagcccagg ggccacctgc tcctgctgtg cctccaaata cagatgtcat ggctgcaca 480
cagacagccc tcttgagaa gctgacctgg gcctctgctg aactgggctc tagcacctcc 540
ctggagacta gcatccagct gtgtggcctt atccgcgcgt gtgcggaggc cctgcgcagc 600
ctgcagcagc tacagcacta agagaagccc ctgagaaaaa ccctctagaa aaacaaaaaa 660
aaaaaaaaa aaaaaaa 678

```

<210> 1937

<211> 2428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2422)

<223> n equals a,t,g, or c

<400> 1937

```

ccgccgcccc cgccctgggccc gcgctccccc tctcccgcgc cctcccctccc tgetccaaact 60
cctcctcctt ctccatgcct ctgttctctc tgetcttaact tgtcctgctc ctgctgctcg 120
aggacgctgg agcccagcaa ggtgatggat gtggacacac tgtactaggc cctgagagtg 180
gaacccttac atccataaac taccacaga cctatcccaa cagcactgtt tgtgaatggg 240
agatccgtgt aaagatggga gagagagttc gcatcaaatt tgggtgacttt gacattgaag 300
attctgattc ttgtcacttt aattacttga gaatttataa tgggaattgga gtcagcagaa 360
ctgaaatagg caaatactgt ggtctggggt tgcaaatgaa ccattcaatt gaatcaaaag 420
gcaatgaaat cacattgctg ttcattgagt gaatccatgt ttctggacgc ggatttttgg 480
cctcatactc tgttatagat aaacaagatc taattacttg tttggacact gcatccaaatt 540
ttttggaacc tgagttcagt aagtactgcc cagctgggtg tctgcttccy tttgctgaga 600
tatctggaac aattcctcat ggatatagag attcctcgcc attgtgcatg gctgggtgtgc 660
atgcaggagt agtgtcaaac acgttgggcg gccaaatcag tgttgtaatt agtaaaaggta 720
tyccctatta tgaaagttct ttggctaaca acgtcacatc tgtgggtggga cacttatcta 780
caagtctttt tacattttaag acaagtggat gttatggaac actgggggatg gagtctggtg 840
tgatcgcgga tcttcaaata acagcatcat ctgtgctgga gtggactgac cacacagggc 900
aagagaacag ttggaaaccc aaaaaagcca ggctgaaaaa acctggaccs ccttgggctg 960
cttttgccac tgatgaatac cagtggttac aaatagattt gaataaggaa aagaaaaataa 1020
caggcattat aaccactgga atcaccatgg tggagcacia ttactatgtg tctgcctaca 1080
gaatcctgta cagtgatgat gggcagaaat ggactgtgta cagagagcct ggtgtggagc 1140
aagataagat atttcaagga aacaaagatt atcaccagga tgtgcgtaat amctttttgc 1200
caccaattat tgcacgtttt attagagtga atcctaccca atggcagcag aaaattgcca 1260
tgaaaatgga gctgctcgga tgtcagttta ttcctaaagg tcgtcctcca aaacttactc 1320
aacctccacc tctcgggaac agcaatgacc tcaaaaaacac tacagcccct ccaaaaaatag 1380
ccaaaggctg tgccccaaaa ttacgcaac cactacaacc tcgcagtagc aatgaatttc 1440
ctgcacagac agaacaaaca actgccagtc ctgatatcag aaatactacc gtaactccaa 1500
atgtaaccaa agatgtagcg ctggctgcag ttcttgtccc tgtgctggtc atggtcctca 1560
ctactctcat tctcatatta gtgtgtgctt ggcactggag aaacagaaag aaaaaaactg 1620
aaggcaccta tgacttacct tactgggacc gggcaggtaa ctcacgtggt ctttgcattc 1680
catttctatc agagggatgt cgctccccta cagggggcag tagtgaaaaa agagtcattc 1740
tctggcccag gtgaactccc cgacactgtt agaacaatgg cattactctt cagttctcac 1800
catttttacc cttctgcaaa gtctcttgta attcctaagt aatgaaatga aaagtacaaa 1860

```

1217

```

tttcttaaaa caagctctgt tctttttctt ctggaaaact tgtgtagttt gtcctgtgta 1920
tctgtttctc atgaggagac cggctttctg tggcccacgt gaacactgag taagaaacaa 1980
aagactgtgg tctccaggac acagtgtgtg tttgtcctct gccatgggta ttcaccaagt 2040
ggagtccagc agtttaggaa tcgggagggtc tcccatgatg agttgtcatc ttctgaattg 2100
ctgcaagtga caccaaaggg gccccctac cagttttctca cttcccagtc tcaactactgg 2160
atcagctctt aggagccagg agagttcact gctgtggcta ggatagaaaa gggcagctag 2220
tgccccaggg tagatcttgg aaaatatattt ttgggaaaaa tgtaattaag gccaccctta 2280
aaatagatac tgtatctggc tgtactatac taacagtgat ttgcctgcat gtgtttgata 2340
gagatttcta ccatgtactg cttggtgctg gatagtctat cacagcaara aaaaaaaaaa 2400
aaaaaactcg agggggggcc cngtaccc                                     2428

```

<210> 1938

<211> 922

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (849)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (909)

<223> n equals a,t,g, or c

<400> 1938

```

gtancngaca gtcacgggtcg gattccccggg tcgaccacag cgtccgggtcc gcagtgacta 60
cactcatggc aggtccccctg tggcggaccg cagcatttgt gcagagacac aggacaggcc 120
tcttggtggg ttcctgtgca ggctgttttg gagttccagt ctctgtaccac ctcttccccg 180
atcccgtggt ccaatgggtc taccagtact ggcttcaggg ccasccagct ccgctccctc 240
cacagctgca gagcctcttc caagagggtc tacaggacat aggtgttctt tcaggccatt 300
gctacaagcc cttcaccacc ttcaccttc agcctgtgag tgcaggcttc ccaagactcc 360
ctgctggggc tgtggtgggc atccctgccg gtttcttggg agacctagtg atcaacacta 420
accatcccgt ggtcatacat gggcatacag tggamtkgcg gagccagcar gcgccccggt 480
gagagcttcc ctgaccttgt cccgtgaagc ccagaagttc gccttggcca ggggaagtgg 540

```

1218

```

gtacctggaa agcagtagca ctgccgtgca cgccttgcctg gccccagctt gcctggcagg 600
gacctgggca ctgggcgtgg gtgccaagta caccctgggg ctccatgcag gccccatgaa 660
tttacgggct gccttcagct tgggtggcagc agtggcaggc tttgtggcct acgccttctc 720
ccaggattct ctactcatg ccgtggagtc ctggctggac cgcgcacgg cytccctctc 780
tgcagcctat gcctgtgggtg gagtggagtt ctatgagaag cttctgtcgg gcaacctggc 840
cctgcgcant ctctttgggc aaaagaagg ggagaagctg tatacaccca acngggaaca 900
tcgtccccna gacacttggt cc                                     922

```

<210> 1939

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 1939

```

tcccnacccc tcttccccct actttgcctt acccctcac ccctcaagac agatgcccc 60
ttgcctttta aaaagttgga ttttaaccga cgtgtttagt ggttcttggc ctgtgtgaag 120
gcagagacca gagagaagga agtgagccca ctgctctcct gggagcaatg tgggtgagtc 180
caccagaggc cctgctgtgt gtggccaata aatttttagtc ttccccagcc ctcgaggcag 240
tgtgtgtgga tgtatgcgtg tggatattta tatatgtacc ctgcactcat gaatgtatga 300
actggaggaa gttactacag tggaaagggt cttataaaca aggtctacct agcatgaagt 360
atttaacatt ctcccatccc ttaaaaaata tacattttta taaaatgaaa accataataa 420
atgttttgaa tattaaaaaa aataataacc tacagaggaa aattaatgga gacagctatt 480
tgccttgtag tttttccaca attgttgctg ctagtgtgac acatctctag ttcagctctt 540
gccacggga cactcatcaa ttaggtttta tttttawttc tttcctctac cccagaaaac 600
aagcctgtta atttttttcc ttctcctctg gsgactgtgt gatgaaycct tycttgctgt 660
atcaggttgc ggataractt gtaagggkgt ttgctgcata cagkgtwagc attgtgaccg 720
ccaataaact tcaatggttt ctaaaaaaaa aaaaaa                                     756

```

<210> 1940

<211> 1884

<212> DNA

<213> Homo sapiens

<400> 1940

```

aggctgatta tttactgtct agaatggatg ttaccagctg catctcttac cgaaattttg 60
caagttgtat gggagactcc cgtttgttga ataaggttga tgcttatatt caggagcatt 120
tgttacaaat ttctgaagag gaggagtttc ttaagcttcc aaggctaaag ttggaggtaa 180
tgcttgaaga taatgtttgc ttgccagca atggcaaatt atatacaaag gtaatcaact 240
gggtgcagcg takcatctgg gagaatggag acagtctggw wgwgtgatg gaagagggtc 300
aaaccttgta ctactcagct gatcacaagc tgcttgatgg gaacctacta gatggacagg 360
ctgagggtgt tggcagtgat gatgaccaca ttcagtttgt gcagaaaaag ccaccacgtg 420
agaatggcca taagcagata agtagcagtt caactggatg tctctcttct ccaaagtcta 480
cagtacaaag ccctaagcat gagtggaaaa tcgttgcttc agaaaagact tcaaataaca 540
cttacttgtg cctggctgtg ctggatggta tattctgtgt catttttctt catgggagaa 600
acagcccaca gagctcacca acaagtactc caaaactaag taagagttaa agctttgaga 660
tgcaacaaga tgagctaatc gaaaagccca tgtctcctat gcagtacgca cgatctgggtc 720

```

1219

```

tgggaacagc agagatgaat ggcaaactca tagctgcagg tggctataac agagaggaat 780
gtcttcgaac agtcgaatgc tataatccac atacagatca ctggtccttt cttgctccca 840
tgagaacacc aagagcccgga tttcaaattgg ctgtactcat gggccagctc tatgtggttag 900
gtggatcaaa tggccactca gatgacctga gttgtggaga gatgtatgat tcaaacatag 960
atgactggat tcctgttcca gaattgagaa ctaaccgttg taatgcagga gtgtgtgctc 1020
tgaatggaaa gttatacatc gttggtggct ctgattcata tgggtcaaaaa ggactgaaaa 1080
atttgtatgt atttgatcct gtaacaaagt tgtggacaag ctgtgccctt cttaacattc 1140
ggagacacca gtctgcagtc tgtgagcttg gtggttattt gtacataatc ggaggtgcag 1200
aatcttggaa ttgtctgaac acagtagaac gatacaatcc tgaaaataat acctggactt 1260
taattgcacc catgaatgtg gctaggcgag gagctggagt ggctgttctt aatggaaaac 1320
tgtttgtatg tgggtggcttt gatggttctc atgccatcag ttgtgtggaa atgtatgatc 1380
caactagaaa tgaatggaa atgatgggaa atatgacttc accaaggagc aatgctggga 1440
ttgcaactgt agggaaacacc atttatgcag tgggaggatt cgatggcaat gaatttctga 1500
atacggtgga agtctataac cttgagtcaa atgaatggag cccctataca aagattttcc 1560
agttttaaca aatttaagac cctctcaaac taacaggctt agtgatgtaa ttatggttag 1620
yagaggtaca cttgtgaata aagagggtgg gtgggtatag atgttgctaa cagcaacaca 1680
aagcttttgc atattgcata ctattaaaca tgctgtacat actttttggg tttatttggga 1740
aaggaatgca aagatgaagg tctgttttgt gtacttttaa gacttttggtt attttacttt 1800
ttggaaaaga ataaaccaag aattgattgg gcacatcaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaagggcgg ccgctcaaga gtat                                     1884

```

<210> 1941

<211> 2731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 1941

```

aaggcgtctg gaggtttaatg ttacttgggtg atatgagact tncattcttn cagggtggaag 60
atgagctcag ctccccagtg gtgggtgttca gattttttcca ggaattacca ggctcagatc 120
cgggtgtttaa agccgtccca gtgcccacaa tgacaccttc aggagtcggc cgggagaggc 180
actcgtgtga cgcgctgaat cgctggcttg gagaacagct gaagcagctg gtgcctgcaa 240
gcggcctcac agtcatggat ctggaagctg agggcacgtg tttgcggttc agccctttga 300
tgaccgcagc agtttttagga actcggggag aggatgtgga tcagctcgta gcctgcatag 360
aaagcaaact gccagtgtgtg tgctgtacgc tccagttgcg tgaagagttc aagcaggaag 420
tggaagcaac agcaggtctc ctatatgttg atgaccctaa ctggtctgga ataggggttg 480
tcaggatatga acatgctaata gatgataaga gcagtttgaa atcagatccc gaaggggaaa 540

```

1220

```

acatccatgc tggactcctg aagaagttaa atgaactgga atctgacctt accttttaaaa 600
taggccctga gtataagagc atgaagagct gcctttatgt cggcatggcg agcgacaacg 660
tcgatgctgc tgagctcgtg gagaccattg cggccacagc ccgggagata gaggagaact 720
cgaggcttct ggaaaacatg acagaagtgg ttccgaaagg cattcaggaa gctcaagtgg 780
agctgcagaa ggcaagtga gaacggcttc tggagagggg ggtgttgcgg cagatccctg 840
tagtgggctc cgtgctgaat tggttttctc cggccaggc tttacagaag ggaagaactt 900
ttaacttgac agcaggctct ctggagtcca cagaacccat atatgtctac aaagcacaag 960
gtgcaggagt cacgctgcct ccaacgccct cgggcagtcg caccaagcag aggcttccag 1020
gccagaagcc ttttaaaagg tccctgcgag gtccagatgc tttgagtga accagctcag 1080
tcagtcacat tgaagactta gaaaagggtg agcgccatc cagtgggccg gagcagatca 1140
ccctcgaggc cagcagcact gagggcacac caggggctcc cagccctcag cacaccgacc 1200
agaccgaggc cttccagaaa ggggtcccac acccagaaga tgaccactca caggtagaag 1260
gaccggagag cttaagatga gactcattgt gtggtttgag actgtactga gtattgtttc 1320
agggaagatg aagtcttatt ggaaatgtga actgtgccac atactaatat aaattactgt 1380
tgtttgtgct tcaactggat tttggcaca atagtgcct gaaaggtagg ctttctagga 1440
ggggagtcag cttgtctaac ttcattgaca ttagaacca catgtttgct gtcctactac 1500
gacttttccc taagttaacca taaacacatt ttattcaca aaaacacttc gaatttcaag 1560
tgtctaccag tagcaccctt gctctttcta aacataagcc taagtatatg aggttgcccg 1620
tggcaactnt tttggtaaaa cagcttttca ttagcactct ccaggttctc tgcaacactt 1680
cacagaggcg agactggctg tatcctttgc tgcggctct tagtacgatc aagttgcaat 1740
atacagtggg actgctagac ttgaaggaga gcagtgattg tgggattgta aataagagca 1800
tcagaagccc tcccagcta ctgctcttcg tggagactta gtaaggactg tgtctacttg 1860
agctgtggca aggtgctgt ctgggactgt cctctgccac aaggccattt ctcccattat 1920
ataccgtttg taaagagaaa ctgtaaagtc tcctcctgac catatatatt taaatactgg 1980
caaagctttt aaaattggca cacaagtaca gactgtgctc atttctgttt agtatctgaa 2040
aacctgatag atgctaccct taagagcttg ctcttccgtg tgctacgtag caccacactg 2100
gttaaaatct gaaaacaagt acccctttga cctgtctccc actgaagctt ctactgccct 2160
ggcagctcgc ctgggcccac ctcagaaaca ggagccagca gagcactctc tcacgctgat 2220
ccagccgggc accctgctta agtcagtaga agctcgtgg cactgcccg tctactttt 2280
ccgaagtact gcgtcacttt gtcgtaagta atggcccctg tgccttctta atccagcagt 2340
caagcttttg ggagacctga aaatgggaaa attcacactg ggtttctgga ctgtagtatt 2400
ggaagcctta gttatagtat attaagccta taattatact ctgatttgat gggatttttg 2460
acattttacac ttgtcaaaat gcaggggggt ttttttggtg cagatgatta aacagtcttc 2520
cctattttgt gcaatgaagt atagcagata aaatggggga ggggtaaat atcaccttca 2580
agaaaattac atgtttttat atatatgttg aattgttaaa ttggttttgc tgaaacattt 2640
cacccttgag atattatttg aatgttggtt tcaataaagg ttcttgaaat tgttaaaaaa 2700
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2731

```

<210> 1942

<211> 749

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

1221

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 1942

```
ctggagtaag gtgctgcgga cgacgcgncc tgggaggata aggatgaatt tttagatgtg 60
atctactggg tccgacagat cattgctgtg gtccctgggtg tcatttgggg agttttgcca 120
ttacgagggt tcttggggaat agcagggtaa gtcttgggtg tcttatattt tcatggtatc 180
atctcttttt aaatagaggc tttttttcct gttacaggaa aggccattgc tgctctggna 240
gctgtgtgtg tgtgtratga ctaaagcaaa gaagcagccc tacagtggca ctccctgggtc 300
tggtgcacca ctctcagga gcatctcara ttctgcctga tcaatgcagg agtcctgtac 360
ctctacttca gcaattacct acagattgat gaggaagawt atgggtggcac gtgggagctc 420
acgarggaag ggtttatgac cyctttttgcc ttgttcaggc cattggatca tcttttacac 480
tgccatccat tagnactgat ggtgtacagc tcccaatgct ccctatccag tccaaaggac 540
cctcttggat tacagcacag gaacttggat cggttggggaa cccagcccct tgggaacttg 600
gaagaccctg gtttccggga ccgcgaatca gtgtgttggg gcatcagtg tttctgacaa 660
gggttgtgac ctggaaactt tttaaaaacc acccacctt gggggaagca tttctggaat 720
tatccatcac caaccattct tcttgggat 749
```

<210> 1943

<211> 1222

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1183)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1217)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1219)

<223> n equals a,t,g, or c

1222

<400> 1943

```

ggcccccttt ggctctgtag agccggcgga accgggtagc ttggccaggt tgtgaggaac 60
cgcagcgcgc cgcaggaccg ggccgctgag cctgcagccg ccccgcgccg tgacctgca 120
ccctagaccc cgactccctt tggctcagcc cgcgcgcccc agggccggcc cgggcggcgc 180
gacgggagga tgagcggcgg gcggcggaag gaggagccgc ctcagccgca gctggccaac 240
ggggccctca aagtctccgt ctggagtaag gtgctgcgga gcgacgcggc ctgggaggat 300
aaggatgaat ttttagatgt gatctactgg ttccgacaga tcattgctgt ggtcctgggt 360
gtcatttggg gagttttgcc attacgaggg ttcttgggaa tagcaggatt ctgcctgac 420
aatgcaggag tcctgtacct ctacttcagc aattacctac agattgatga ggaagaatat 480
ggtggcacgt gggagctcac gaaggaaggg tttatgacct cttttgcctt gttcatggtc 540
atttggatca tcttttacac tgccatccat tatgactgat ggtgtacagc tcccaagtgc 600
tccctatcca gtccaaagga ccctcttgat tacagcacag gaacttgatc gttggggaac 660
cccagccctt tggaacttgg aagaccctg tttcctggac cgcgaatcag tgtgttgggc 720
atcagtgttt tctgcaaggg ttgtgacctg aaacttttta aaaaccaccc accttgggg 780
aagcatttct gaatttatcc atcaccaacc atttcttctt ggataccatc aagtaacagc 840
tattatttgc caagtggagc tgtcatttaa tttgatgcac ctctggattc agatgaaaca 900
ttaaattgtc ttctcgtatt ctccatcggg tgtagagttt ttaaactatc aatggcattt 960
caagtcttct gaaacagcat ggctgtatgt gcgtgggtcca tagcacagta catgcagcat 1020
ctaataagag tttccattgt agaattgttt cacatacttg aataaatcaa atctttaatt 1080
gagaaaaaaa aaaaaaaaaa rccggccgct ctagagggat cccaagctta cgtacgcgtg 1140
ccatgccaac ggcataagct tcttttatag ggggcacctt aantcnaatt cactgggccg 1200
cgtttttaca acggcnngna ct 1222

```

<210> 1944

<211> 2786

<212> DNA

<213> Homo sapiens

<400> 1944

```

ggtggtcggc ggcggcgggc gcggcgggcg cggcacagag ccggtggtgg agccgccgag 60
gagggtcacg cagcacaatg ccagctctgc ccctggacca actccagatc acccacaagg 120
acccgaagac aggaaagctg aggacttcac cagcgctgca ccccgagcag aaggcagacc 180
ggtattttgt gttatacaaa ccgcccccta aagacaacat tcccgcctta gtggaggagt 240
acctggaacg cgccaccttc gtagecaatg acctcgactg gtccttggtc ttgcctcacg 300
ataaattctg gtgccagggt atctttgacg agactctaca gaagtgcctg gactcctacc 360
tgcgctatgt ccccgcaaaa ttgcagcagg ggggtggcctc agcccctgag gttgttgaca 420
tgcagaagcg cctccatcga agtggttttc tcaccttcct ccgcatgtcc actcacaagg 480
aatccaaaga tcacttcatt tccccctctg cgtttgga aatcctctac aataacttcc 540
tctttgacat tccaaagatc ctggacctct gcgtgctctt tggaaaaggc aactcaccac 600
tgctccagaa gatgatagga aacatcttta cacagcagcc aagttactac agtgacctgg 660
atgaaacctt gcctaccatc cttcagggtc tcagcaatat cctccagcac tgtggtttgc 720
aaggggacgg ggccaatacc acaccccaga agcttgagga gaggggcca ttgaccccca 780
gtgacatgcc tctcctggaa ttaaaggaca ttgttctcta cctttgtgat acctgcacca 840
cactttgggc ctttctggat atcttccctt tggcttgcca gaccttcag aagcacgact 900
tttgttacag actagcttcc ttctacgaag cagcaattcc cgaaatggag tctgcaatta 960
agaagaggag gcttgaagat agcaagcttc ttggtgacct gtggcagagg ctctcccatt 1020
ccaggaagaa gctaattggag attttccaca tcaccttgaa ccagatctgc ctcttccca 1080
tcctagaaag cagctgtgac aacattcagg gcttcacatc agagtctctt cagatcttca 1140
gtccttggct gcaggagaag aggttccctc gggactatga tgcactcttc cccgtggccg 1200
aagacatcag cttgctgcag caggcctcat cagtcttggc cgagacgcgg actgcctaca 1260

```

1223

```

tcctccaggc agtcgagagt gcatgggaag ggggtggacag acggaaagcc acagatgcta 1320
aagacccatc ggtgattgag gagcctaata gggagcctaa cgggggtcacg gtgacagcag 1380
aggcagtcag tcaagcatca tcacatccgg agaactcggg ggaagaggag tgcattggag 1440
cagcccgccg tgtgggccct gccatgtgtg ggggtggaact ggactctctc atctcccaag 1500
tgaaggacct gctgccagac cttggtgagg gcttcacctt ggcttgctg gagtactacc 1560
actacgaccc agagcagggt atcaacaata tcctggaggga gcggctggcc cccaccctca 1620
gccagctgga ccgcaaccta gacagagaaa tgaaaccaga ccctacaccc ctgctgacgt 1680
ctcgccacaa cgtcttccag aatgacgagt ttgatgtgtt cagcaggagc tcagtagacc 1740
tgagccgggt gcacaagggc aagagcacca ggaaggaggga aaacacgcgg agtttgctga 1800
acgacaagcg tgcagtggcg gcacagccgg agcgctacga gcagtacagc gtggtggtgg 1860
aggaggtgcc actgcagcca ggcgagagcc tgccctacca cagtgtctac tacgaggatg 1920
agtacgatga cacatacgat ggcaaccagg tgggcgccaa tgatgcagac tctgatgacg 1980
agctcatcag ccgcaggcca ttcaccatcc ctcagggtgt gagaaccaa gtgcctagag 2040
aagggcagga ggaggatgac gacgatgagg aagacgatgc tgacgaggag gctcccaagc 2100
ccgaccatct tgttcaggac cctgcagtgc tgagagagaa ggcagaagcc aggcgcattg 2160
cctttctcgc caagaaaggg taccggcatg acagctcaac agcagtggcc ggcagccccc 2220
gaggccatgg gcagagccgc gagacaaccc aggaacgcag gaagaaggaa gccaacaagg 2280
cgacaagagc caaccacaa cggagaacca tggccgaccg caagaggagc aaaggcatga 2340
tcccattcct agacctgggt cagggccagt ggggaggcag cggcaccaga ctcaccaggc 2400
cgcgctccca tcgcctgggg cctcctcact agggggcccca agttcaactc aaccctcaa 2460
cagcctcagc tttgcagccc ctgagaaggc cgcctctcat ctaccagcca gccatgagcg 2520
ccttcctgca gaacacacag tgccttatgc cacagccgaa gaatccgtgg ggccggcaag 2580
caggcacctt cccccagctg cgctagcggg aaagagatgg ggatggagtc ccaaggcaag 2640
cgccccaaac ctcgggccac aagacaccac ttccccctta ccctggacag caggaaacct 2700
gtatatccaa aaacacaaaa agtcctgcta ataaaaatct tgaccctttc aaaaaaaaaa 2760
aaaaaaaaaa aaaaaaaaaa aaaaaa 2786

```

<210> 1945

<211> 1483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1478)

<223> n equals a,t,g, or c

<400> 1945

```

aattcggcac gagccgggct ctaccagag caagaccctg atggctgcgg tgtttctggt 60
aacgctttat gaatactcgc cgcttttcta catcgcggtg gtctttacct gcttcacgt 120
gaccaccggc ctggtattgg gatggtttgg ttgggatgtt ccagtaattc tgagaaattc 180
agaagagacc cagttcagca caagagtttt caaaaagcaa atgagacaag tcaagaatcc 240
ttttggctta gagatcacta atccatcttc agcttcaatt acaactggca taaccttgac 300
aacagattgc cttgaagata gcctccttac atgctactgg ggggtgcagt ttcaaaaatt 360
atatgaagct ctgcagaagc atgtttattg cttcagaata agcactcccc aagcattaga 420
agatgctctg tatagtgaat atctctatca ggaacagtat tttattaaaa aggatagcaa 480

```


1224

```

agaagaaata tattgccagt taccaagaga tactaaaatt gaagactttg gtacagtacc 540
cagatctcgc tatccattgg tagcgtatt gaccttagct gatgaggatg accgggaaat 600
ttatgatatt atttccatgg tgtcagtgat tcatattcct gataggactt ataaactatc 660
ctgcagaata ttgtatcaat atttactcct ggctcaagggt caatttcatg atcttaagca 720
acttttcatg tctgcaaata ataatttcac tccctccaac aattcctcct cagaagaaaa 780
aaacacagac agaagtttgt tggaaaagggt gggactctct gaaagtgaag ttgagccatc 840
ggaagagAAC agcaaggact gtgttggttg ccagaatggg actgtgaact ggggtactctt 900
accatgcaga cacacatgcc tgtgtgatgg ctgtgtgaag tattttcagc agtgcccaat 960
gtgcaggcag tttgttcagg aatcttttgc actttgcagt caaaaagagc aagataaaga 1020
caaacccgaag actcttttgaa gacatcgtaa cactgaaaag tacactttct actaaagatg 1080
cagaaattga tgatcttgga attcatcata acatggaaac tacagtactg accatcaatg 1140
aaaattatat tttaacttca tatttgtatg gtacttggat gataaaaatt aattattcct 1200
ttctgcttag tgaatgaata ctggaatcca tctgtgttga tacataaaaa ttcatccaac 1260
tcttgaaaag aatctaagag tttggccttt tattagctag atttcctctc atgttaatta 1320
gaaaaatcat tctgaaaggc aatccattga aaatttgagg aggttaaatt cttaagatca 1380
ctaaatgttt tacctttgat gttatcgggg gtgcaattaa gaaaaaactt aattctactt 1440
aaagtaattg tgtgttcccc taattttatac aaanggantt ggg 1483

```

<210> 1946

<211> 1587

<212> DNA

<213> Homo sapiens

<400> 1946

```

aggaaatctc ggggtgcctt tactgtaaca agttatgctc ggctctcttt tattttacaa 60
gaggatggtg agggagagaa tggaagaaca gagggggcgg acgtataaga catttgacac 120
tgcctatgtc tgatttctct ttctttcttt ctttctttct ttctttcttt ctttctttct 180
ttcctttctt tctttcttgc aagctgtgat cggatgcaat ctttgtggga catttaaatg 240
gaaggggttca ttgatgtgta ttgcttgcca agccaaaatg ttgccttttg ggaaaagggg 300
gagaggtgtt catggagtgc agggaaagga ggttttgggg cagagatttt gacttaaaaat 360
aaccagactt cttctggctg ctgaaaagag gcaaaaagtt taaattgtca agtttaaaac 420
tatgttcagt tatgatattg cacttctgaa tattattttg gatttcccct ttcatgctta 480
ttttgttcag aatcctaatt aatagagggt gctggactca gggtaaaaagc aggatgaact 540
ggagatggga catacaagggt acttttgga ttgccataga ttacacctat aatcagagta 600
aatgtcatca acaataatc aaaatatatt ttacatttgc tcttctaaaa tcagagccta 660
ttttaaatat aaaagaaagt agatgtgata ataataataa ctacagtcac attaatgtga 720
tattaaattc aaaatctaac atagatttgc actgttgggt gtgtgttccg aatcagtggg 780
ttttccact gatgttgatt tcgggagcca ggcttcaatg ttttaattcta ttgtaatgtg 840
gttatttagc ctgaatgggt ttataagggt gaaaggcaaa aaatttaatt ccgaagaaaa 900
ctagtgtttt actatgactg tggtaaacat ttccaaaagg cacctgtggg aaatacaaaag 960
ttttaatgct gtgtgttttt ttgtttttgt attttgtctc atcgacaaaa ctggcagaaa 1020
aaaacgcctt cgtatatatt tctgctggg tggtcagaag gaaaggccgt gaagctaaaag 1080
gtctcccact gagacgctgt tctgcaagga gccgacctca cgtgccgccg ccgccagaga 1140
agagagcacc tgttcatctc ggctcactgt gaggtgagc tcagcgctgg caggcgaggg 1200
gccgcaagca tccccacag ccaccgagag ggcattccctg cagggaaatc atatccgaca 1260
tgctgtgcc cacagcagac ttaagactgc ctctaaaatg tccatgaagc cattgtccag 1320
tagagctgtt agttttaaca ccagtgaag ttaccttttg ttaaaaggat gcatgtgtat 1380
aggtgtatgt gtgtgcgtgt gtgtttgtgt ttttggactt gtgtggagaa tgaagaaagg 1440
gttccattta ggcatttgca aatattcgat ggcattcatga aaagacaaaa aaatcctata 1500
aaatatatca tattttgcta tgattttgtg tgtacatgta ataaaattat taagtataaa 1560
aaaaaaaaa aaaaaaaaaa aaaaaaa 1587

```

1225

<210> 1947
 <211> 2007
 <212> DNA
 <213> Homo sapiens

<400> 1947
 ggcacagctg aggaactgaa aagaaatgct gagacaggaa atctgcctca ttcgtaccgg 60
 ctcatcagtg ttgtcagtc cattggtagc acttcttctt caggtcatta cattagtgat 120
 gtatatgaca ttaagaagca agcgtggttt acttacaatg acctggagggt atcaaaaatc 180
 caagaggctg ccgtgcagag tgatcgagat cggagtggct acatcttctt ttatatgcac 240
 aaggagatct ttgatgagct gctggaaaca gaaaagaact ctcagtcact tagcacggaa 300
 gtggggaaga ctaccctgca gscctcgtga ggaacaaact cctgggttgg cagcatgcac 360
 tgcataattt ttactgctgc ccacctcacc tttctctctg tgaaggagaa tttggaattc 420
 tacttgatgc gggagcaaca aacagctcag ggccaaacca aaagacaaaa attggagtaa 480
 cgtagaatgc tccatgctat tttatggaaa ctttgggtct acatccgtag ctgattatcc 540
 tctttttctc ctatgagtgg cacttctttt gtcttaggaa tacatgttgt aaatatatat 600
 ctgtgtatgt gtgtatacac acacacagac acacacacac acacacggga tgaatggagc 660
 cttaaagagt taggatgagc caccagaata tgctgtctca aaattaatag cacagcagtt 720
 tggagaagaa atgaagggtg caaagagtcc attcacctga gaaatgtgtg aagacatact 780
 tatcagttgg ctttttagctt ttatgttcct tgagtagttt cactcaagtc tgtaaccttt 840
 tgtgtttcct tattagtaaa attcactgga aagccagctc ttcattgttac actaatgaca 900
 gtttgttctc tttgcaagag aggggcatta ctgtcacctg acttgaggag ctgttttgtt 960
 gttgttgttg tctgcaaatt tcatgaattt gtgatgtctt tgctgtttac atgcagtccc 1020
 aagaaatgga ttgttggtgc ttttgaatat gttacagtcc cacatttgat atttcttata 1080
 tactttgttt tctctaagga gatttcttca cacagtatgt tcatcatata tcatcatcat 1140
 tattatggtg gtaaagatag aatctttttt cttttttgtc attctgscat ggagcagcat 1200
 taccctaatt gattgcaacc aaaactttta acaagtagaa agataaatatt tctccaattg 1260
 ggactcccca gcaggaatac ttagggataa ggaagaatgc tagcatctct gtctctcara 1320
 catagggagg ataagaagag tgktcttctg gtaaagctaa aattctggac cactgaagct 1380
 aaaagcccta ttgcaagtat gaaattaagt acttgagcta taggacaaac cttgggcatt 1440
 taaccattta ctgtctggct ttgcccttaa aataggggtg caattaaaaat gtgattggct 1500
 taggtaatcc caaaaactaa caaataacaa aggtgcataa tttattttat tacttttttag 1560
 gtgctctgag ttgaggcaaa gtagagcggc aacattaaat gctatgctag tcacttagct 1620
 gacgtaacca gcttgggttaa gcagcttatg aaaccatata aagaattctt ttgaggatgg 1680
 aattctgtcc acaaaataat tttgtgagcc cagatatcat taggatcaca cagagttaaa 1740
 tatagaaaaa tgaaaccatc attatattct ttcgtgtttt ttctttttatt ataaacaagg 1800
 ggattattct ttagttctca gaggtaggga caaaaccaca tcagggtttc agaaggaaaa 1860
 aacattttaa aaccaccatc cacatgagag aatcacttga acccaggagg cagagggttg 1920
 agtgagctga gatcgcatca ttgcactgca gtctgagtga cagagtgaga ctccatctca 1980
 ttaaaaaaaaa aaaaaaaaaa actcgag 2007

<210> 1948
 <211> 1250
 <212> DNA
 <213> Homo sapiens

<400> 1948
 aattcggcac gagctctccc ttcggcttct ctctttcggc cggcgccgcc agttcctggg 60
 gcacaccag aggtccctt ctcgccgcc cctgcaactg cgagggtagc ccggggccgc 120
 ttggagtcgc ccggacctga gaggtgctg cactgggcct cagccagccc tccggatgct 180

1226

```

ggtgctgcca tccccctgcc ctcagcctct ggcattttcc tccgttgaga ccatggaggg 240
ccctccccgt cggacttgcc gctccccaga acctggacct tcctcctcca tcggatctcc 300
ccaggcttca tctcctccaa ggcccaacca ctacctgctt attgacactc aggggtgtccc 360
ctacacagtg ctgggtggacg aggagtcaca gagggagcca gggggccagtg gggctccagg 420
ccagaaaaag tgctacagct gccccgtgtg ctcaagggtc ttcgagtaca tgtcctacct 480
tcagcgacac agcatcaccc actcggaggt aaagcccttc gagtgtgaca tctgtgggaa 540
ggcattcaag cgcgccagcc acttggcacg gcaccattcc attcacctgg cgggtggtgg 600
gcggccccac ggctgcccgc tctgccctcg ccgcttccgg gatgcgggtg agctggccca 660
gcacagccgg gtgcactctg gggaacgccc gtttcagtgt ccacactgcc ctccgctt 720
tatggagcag aacacactgc agaaacacac gcggtggaag catccatgag ccgggctgcc 780
gggtgcccca ggtaccacag gactttgcag ggagcctgga ctctgtcca gacacctggt 840
gagagcctga ggctggtgtt cagggccctg gacacagaca cagagcagcc gcatctcaaa 900
ggcagagccc tgctgaagg aggaatccgt gagtaatctt caggtcctcc gtgttctgga 960
gctgagatgg gaatgagccc ctacacagaa tggagtcctc tagcctaaag atatcagctg 1020
ttccatggca gagccttgac tggatggagg tggggagtgt ggtgtgtaaa gtctctggcc 1080
tcataaaaag tggctgtggg tcgtcaggaa tctgcgccat cttcctgggg cttctgcgct 1140
gttgttgggg aagggacccc agtctgcct tccaccccc aaccaggcct gagactgatc 1200
aaacaataaa cagtttccc actctgaaaa aaaaaaaaaa aaaaaaaaaa 1250

```

<210> 1949

<211> 2154

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2152)

<223> n equals a,t,g, or c

<400> 1949

```

gtttatattt ttatttatatt tagaaataag agcctgggtg acaagagtga gactctgtct 60
ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa tggattgcct ggctctactc cgggcacagc 120
atgcaggccc agttctgctg ctctgctggt tgttctgctt tcctccacat attggcatca 180
ccctctgggt ccaagatggc tgctgcattc caggcatcac atccagactc agaccagag 240
aagctgcccc tcctacctg ggtgagcctt tgtaggaacg agaaaccgca tccagcagca 300
gaaacctcac ccagcagcgt cttttccggt ctcattcacc agcgccgcc accgctcaac 360
caatccctgg ccaaaagaat gggaccgcct ggaaggctgg accaaacagg acctgccctc 420
tggggctggg gagaggccca gatgaaggct gcaggacagg atggactcct agacctctgt 480
taccagcagt gactacctct gtctgggtgg ttggaacatg tttgaatttt attctaagta 540
ctgtctacaa gttctgcaat aaaccttgac tcttctttta ataatgcaa aggaatcgaa 600
gtgattgttt gaaagggaga ggaagaaaga gagangggag ggagggaaga atggagggag 660

```

1227

```

gcaggggaagg agacagagag agtagaatcc agccaccgga aaaatccaga atagctggct 720
ttgcttaatc catgcctgga aataactgct gggtttgcaa caactttctc cccggagaca 780
gaccaaggaa actacaaaac tgcagggkat tgaagggccg ggcacagtgg ctacgcctg 840
taatcccaaa gtgctgaatt aagcagctca ccatccacac ggctgacctc atacatcaag 900
ccaataccgt gtggcccaag acccccacca taaatcacat cattagcatg aaccacccag 960
agtggcccaa gactcccaga tcagctacca ggcaggatat tccaagggct tagagatgaa 1020
tgcccaggag ctgaggataa agggcccgat ctttcttttg gcaagggttaa gcctttactg 1080
catagcagac cacacagaag ggtgtgggcc accagagaat tttggtaaaa atttggcctc 1140
tggccttgag cttctaaatc tctgtatccg tcagatctct gtggttataa gaaacagcca 1200
ctgaccctgg tcaccagagg ctgcaattca ggccgcaagc agctgcctgg ggggtgtcca 1260
aggagcagag aaaactacta gatgtgaact tgaagaaggt tgtcagctgc agccactttc 1320
tgccagcatc tgcagccact ttctgccagc atctgcagcc agcaagctgg gactggcagg 1380
aaataacca caaaagaagc aaatgcaatt tccaacacaa gggggaagg atgcaggggg 1440
aggcagcgt gcagttgctc aggacacgct cctataggac caagatggat gcgacccaag 1500
accaggagg cccagctgct cagtgcact gacaagttaa aaaggtctat gatcttgagg 1560
gcagacagca gaattcctct tataaagaaa actgtttggg aaaatacgtt gagggagaga 1620
agaccttggg ccaagatgct aaatgggaat gcaaagcttg agctgctctg caagagaaaa 1680
taagcaggac agaggatttg ctctggacag agatggaaga gccgggaaca gagaagtgtg 1740
gggaagagat aggaaccagc aggatggcag gggcaaagg ctcaagggtg aggaggccag 1800
tgggacccca cagagttggg gagataaagg aacattgggt gctttgggtg cacgtaagct 1860
ccttgtctgt ctccagcacc cagaatctca ttaaagctta tttattgtac ctccagcggc 1920
tgtgtgcaat ggggtctttt gtggaaatca aggagcagac aggtttcatg tgtactgtca 1980
ccacgtggga tggaaccaga ggcattggaag caagacgcta aatgaagagg gccataaggg 2040
ctgggattcc caggcacctt aggaacagct tgtkcttttt ttttctct ccaaaaaaaa 2100
tgtttaaggg acggtgacaa gagtgaact ctgtctycaa aaaaaaaaaa tnaa 2154

```

<210> 1950

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

1228

<220>
 <221> misc feature
 <222> (599)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (630)
 <223> n equals a,t,g, or c

<400> 1950
 agacaggtga gcgacgaact tctgagacag cagttgtgtc cctgtggctt tgggtgcgcct 60
 gtgtgcactt tctccctcca cctggagcat gggctaacac cggaggaaaag gaaaagacag 120
 agtcagacag ggagcctggg gaggggccat ggtgccaatg cacttactgg ggagactgga 180
 gaagccgctt ctccctcctgt gctgcgcctc ctccctactg gggctggctt tgctgggcat 240
 aaagacggac atcacccccg ttgcttattt ctttctcaca ttgggtggct tcttcttggt 300
 tgcctatctc ctgggtccgg ttctggaatg ggggcttcgg tcccagctcc aatcaatgca 360
 gactkagagc ccagggycct caggcaatgc acgggacaat gaagcctttg aagtgccagt 420
 ctatgaagag gccgtggtgg gactagaatc ccagtgccgc cccaagagtt ggaccaacca 480
 cccccctaca gcaactggtg gngatacccc cagcaccctg anganggaac aacctagccc 540
 attccagaag ggggtccaggn agaagccaaa actgggaaca gaggccgaat gggccttana 600
 aggggggtccc atggggcccca ggaagggaan ccctgggaa gaacttccaa at 652

<210> 1951
 <211> 469
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (448)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (463)
 <223> n equals a,t,g, or c

<400> 1951
 gaagtgggag aggtcgcagc cccgccttct ctacacagga aagctcagt gcccccaagc 60
 caggatgtcc caagcttggg tccccggcct cgcgcccacc ttgctgttca gcctgctggc 120
 tggcccccaa aagattgcag ccaaattgtg tctcctcctt gcctgcccc aaggattcaa 180
 atgctgtggt gacagctgct gccaggagaa cgagctcttc cctggccccg tgaggatctt 240
 cgtcatcatc ttctgtgtca tcctgtccgt cttttgcata tgtggcctgg ctaagtgtt 300
 ctgtcgcaac tgcagagagc cggagccaga cascccagt gattgccggg ggccccctgga 360
 actgcctcc atcatcccc cagagaggt gattctgaag cccagcytgg gccaaaytccc 420
 acagagccaa cccctcccta cagttcangc ctgaagaata tancgggga 469

<210> 1952
 <211> 755
 <212> DNA

1229

<213> Homo sapiens

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 1952

```

cgatgtctta ttgtgatgag tctcgactgt caaatcttct tcggaggatc acccggaar 60
acgacmgaga cygaagattg gyyactgtaa agcagttgaa agaatttatt cagcaaccag 120
aaaataagct ggtactagtt aaacaattgg atatcttggc tgctgyacat gatgtgctta 180
atgaaagtag caaattgctt caggagttga gacaggaggg agcttgctgt ctyggccttc 240
tttgtgcttc tctgagctat gaggctgaga agatcttcaa gtggattttt agcaaattta 300
gctcatctgc aaaagatgaa gttaaactcc tctacttatg tgccacctac aaagcactag 360
agactgtagg agaaaagaaa gccttttcat ctgtaatgca gcttgtaatg accagcctgc 420
agtcaattct tgaaaatgtg gataaccag aattgctttg caaatgtgtt aagtgcattc 480
ttttggtggc tcgatgttac cctcatattt tcagcrctaa ttttagggat acagttgrta 540
tattagttgg atggcataga gatcatactc agaaaccttc gctcacgcag cargtatctg 600
ggtggttgca gagtttgag ccattttggg tagctgatct tgcatttnc t acgmctctwc 660
ttgggtcagt ttctagaaga catggaagca tatgctgagg accycagcca tgtggcctct 720
ggggaatcag tggatgaaga cgtccctcct ccatt 755

```

<210> 1953

<211> 1022

<212> DNA

<213> Homo sapiens

<400> 1953

```

cggactgggt ctccgtggga ggggcctggg tctggagagc agggcagggt ctctggggcc 60
taggggatgg ggatggggct ggggtctcaga ggaggcaggg ttacgtgca gaagagcgga 120
cttgggtctcc ggggtcccga gtgggtgacg cggcccgcga cagggtgcttc ctgaagggtga 180
gccggctgga ggcacaactg ctccctggagc gctaccccga gtgcgggaac ctgctgctgc 240
ggcccagcgg ggacggcgcc gacggygtgt cggtcaccac gcggcagatg cacaacggga 300
cgcacgtggg ccggcattac aagggtgaagc gggagggccc caagtacgtg atcgatgtgg 360
aacagccgtt ctcttgacc tccctggacg ccgtgggtcaa ctatttcgtg tcgcatacca 420
aaaaggcgct ggtgccattc ctgttagacg aggactacga gaaggtgcta ggctacgtgg 480
aagccgataa ggagaatggc gagaatgtgt ggggtggcgcc ctccgctccg ggcccagggtc 540
ctgcaccctg cacagggtggc cccaagccgc tgtcacctgc gtctagccag gacaagctgc 600
ccccactgcc cccactaccg aaccaggaag agaactacgt gacccccatt ggagatggcc 660
cagctgttga ctatgagaac caagatgtgg cttcctctag ttggccagtc atcctgaagc 720
caaagaagtt gccaaagcct cctgccaaagc ttccaaagcc acccgttgga cccaagccag 780
agcccaaagt ctttaatggg ggcttgggca ggaagctgcc agtcagttca gccagcctc 840
tcttccccac agccgggctg gcagacatga cggcagagct acagaagaag ctggagaaga 900
ggcgggcact ggagcactga ttccgacaca ccagggaaca gcgggctagt cccaggggcat 960
gccagcggc cagattcttt ttccaggat taaaactctg accccaggaa aaaaaaaaaa 1020
aa 1022

```

<210> 1954

<211> 1776

<212> DNA

<213> Homo sapiens

1230

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (21)
 <223> n equals a,t,g, or c

<400> 1954
 atcatatagg caanggtanc ngacagtacg gtcggaytcc cgsgtcgacc cacgcggctg 60
 gaaggaactg gtctgctcac acttgctggc ttgcgcacatca ggactggctt tatctcctga 120
 ctcacgggtgc aaaggtgcac tctgcgaacg ttaagtccgt cccagcgct tggaatccta 180
 cggccccccac agccggatcc cctcagcctt ccaggtcctc aactcccgcg gacgctgaac 240
 aatggcctcc atggggctac aggtaatggg catcgcgctg gccgtcctgg gctggctggc 300
 cgtcatgctg tgctgcgcgc tgcccatgtg gcgcgtgacg gccttcatcg gcagcaacat 360
 tgtcacctcg cagaccatct gggagggcct atggatgaac tgcgtggtgc agagcaccgg 420
 ccagatgcag tgcaagggtg acgactcgct gctggcactg ccgcaggacc tgcaggcggc 480
 ccgcgcctc gtcacatca gcatcatcgt ggctgctctg gccgtgctgc tgtccgtggt 540
 ggggggcaag tgtaccaact gcctggagga tgaaagcgcc aaggccaaga ccatgatcgt 600
 ggcgggcgtg gtgttcctgt tggccggcct tatggtgata gtgccgggtg cctggacggc 660
 ccacaacatc atccaagact tctacaatcc gctggtggcc tccgggcaga agcgggagat 720
 ggggtgcctcg ctctacgtcg gctgggcccgc ctccggcctg ctgctccttg gcggggggct 780
 gctttgctgc aactgtccac cccgcacaga caagccttac tccgccaaagt attctgctgc 840
 ccgctctgct gctgccagca actacgtgta aggtgccacg gctccactct gtccctctct 900
 gctttgttct tccctggact gagctcagcg caggctgtga ccccaggagg gccctgccac 960
 gggccactgg ctgctgggga ctggggactg ggcagagact gagccaggca ggaaggcagc 1020
 agccttcagc ctctctggcc cactcggaca acttcccaag gccgcctcct gctagcaaga 1080
 acagagtcca cctcctctg gatattgggg agggacggaa gtgacagggt gtggtggtgg 1140
 agtggggagc tggcttctgc tggccaggat ggcttaaccc tgactttggg atctgcctgc 1200
 atcgggtgttg gccactgtcc ccattttacat tttccccact ctgtctgcct gcatctcctc 1260
 tgttgccgggt aggccttgat atcacctctg ggactgtgcc ttgctcaccg aaacccgcgc 1320
 ccaggagtat ggctgaggcc ttgcccaccc acctgcctgg gaagtgcaga gtggatggac 1380
 ggggtttagag gggaggggcg aaggtgctgt aaacaggttt gggcagtggg gggggagggg 1440
 gccagagagg cggctcaggt tgcccagctc tgtggcctca ggactctctg cctcaccgc 1500
 ttcagcccag gggccctgga gactgatccc ctctgagtc tctgcccctt ccaaggacac 1560
 taatgagcct gggaggggtg cagggaggag gggacagctt cacccttggg agtctgggg 1620
 tttttcctct tccttctttg tggtttctgt tttgtaattt aagaagagct attcatcact 1680
 gtaattatta ttattttcta caataaatgg gacctgtgca caggaaaaaa aaaaaaaaaa 1740
 aaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgc 1776

<210> 1955
 <211> 1129
 <212> DNA

1231

<213> Homo sapiens

<400> 1955

```

gcccctgtca cgcttctctg tgcccacgtt tctgacctgg tgctgccact gttgtcagtc 60
cctgggcctg agtcctctgg tggacaggaa tggacccaaa gaatgggtgtt ggtatgtggg 120
tgggtccact cgctttggtc agtgggcttc tgggtccccc tttccctcac cggccctgtg 180
tgggtggaga ggcgtgagca ccctatctca gctgctattc gggcatgatg ctttgtagag 240
ggtagagtag acagccccct cccctactca ccatgggtatt tctccttgaa ttccctcttc 300
ttgttttctt tcctggttgt gtgaaccagt tgctgctgtc atacccttg cagggccagg 360
ggacctctct ttggtcatct ctgtcccttc actggctgct gcccaggaa gactcctcta 420
ggctctccat ctttcccttg agagctggct cccaccccca acctgctcag gcaccacaga 480
ggatctaggt ctctggctcc ccatacctgg acccacatgg gtgggtgcct gttgcatgtt 540
taagagagag gggctgtgag gtgacagggc actagggcct tcactccttt ctccccttcc 600
atcctttctt taccagtgcc acccatgtcc ctagctcccc ggtattgggg ctgaggctct 660
ggggcctgtc tccttgccag cgtgagggca agaccccaga gccttagctg agcaagccca 720
gaggggcagc gtggccctc cctccccttt tcctgccccg tcccatgcct cagcttgctg 780
cttggtgccag ttgctgttt cgcttcagt tttgattcta gcacttacat gtgtcctccc 840
caccaagccc tctatctcct tctaactcct caacccttg cccctcccc gtaacagtga 900
cttttccagg gaggaagagg cagcaggagc tgttggcctt ggtttgaca gagcgggtag 960
ggctgtaggg aaagcgggtg agctgttggt ctgctgggcc tccctttggc cctcgcttcc 1020
caccctacga tgtatgaaat gtatgtacag accagagatg tttatacagc cgataaagat 1080
ggagtttccg tatttatcag taaaaaaaaa aaaaaaaaaa aaactcgag 1129

```

<210> 1956

<211> 279

<212> DNA

<213> Homo sapiens

<400> 1956

```

gagaaaaggg accaaaagtt attttagctt cctcaataga ttgcatgttg cttattagga 60
taataaatta atattaaatg caatatatgt cttgtcttta ttatggcatc tatttaggag 120
ttgttcaaat cactgcagta gggctctgca aataaaataa tgtaacctat tatcatggat 180
ctaattgtact gtaactttat cagtgaagg taaaatctca aataacaagt acaaacattg 240
aacaattacc tataaagatt tgtaaaagta aaaaaaaaaa 279

```

<210> 1957

<211> 923

<212> DNA

<213> Homo sapiens

<400> 1957

```

tttatcatct tattttgaac ctggtgtaga ttacagtaaa gcaaaccatt cagtgtgttc 60
caggaaatta tattagatct gtgtttctat cagctcactg gaataatctg ataattgtta 120
cttttacttg gtatggctgc aagaatagt gaaagaagag gacttgagag ttggctgaac 180
ccaggtttga aatctggctt agtcattttt cagctgttat cctgggtgag ttttgccaac 240
tttcttagct tcatttcctt cattaatacg gtgggacata acagctactc ttgcattgaa 300
aattaagtta grttacctgt ctagcatacc catcatcata cacttactat ggtcacattt 360
tgtatttaaa ataaactaat acgaaaaata tttctttttt tttacacaga attatgatte 420
tcacagggta tataaattac tgattagaat tatttatatg tggccaattc ttaatgkcat 480
tggaakgct gttycatttc aaycctcaa gttactgtag cacagaaaat atcacaattt 540
cctgcaggga cattatcagt aagtyckgca gggaacaaac aattgacatt aaaaatcagt 600

```


1232

```

actctgcaat tgtcactggt atyatctgct agaaactytg cataatgcat tttaaaccac 660
caaggctggc tgccacatcc atgtgaaatg cttgaatttt atggtgctta aatatttaaat 720
gattcatggg aaaaatgtga aatgtgtcta ataaattgca tccctttctc taacctctgg 780
ttgtaaagtt aaagactttc agcatgtaac ttttgcaaga tgcttggctc gccattggca 840
cttaaatatt tgttgtatta cgatttataa tatggttcat tatatataaa attctgtgat 900
gasttccaaa aacaaaaaaa aaa 923

```

<210> 1958

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 1958

```

agtttggaga ccaccgcgaa traagtttgc attttctctt gttcttgagc ccagcttctt 60
ctcgtctccc accccagctt cccggcattg gaagaaggga ccgctctctt ccttgtcttg 120
gccacccaaa tcctgggtatc gaaaggggtt aacggaccgg aagtgtgcag cagcgacggg 180
tccccagcta atcgacgccg gaagtagcaa ttactagaca agcattccgc cgccggcttc 240
gctatggcgg caattccccc agattcctgg cagccaccca acgtttactt ggagaccagc 300
atgggaatca ttgtgctgga gctgtactgg aagcatgtc caaagacctg taagaacttt 360
gctgagttgg ctcgtcgagg ttactacaat ggcacaaaat tccacagaat tatcaaagac 420
ttcatgatcc aaggagggtga cccaacaggg acaggctcgag gtggtgcac tatctatggc 480
aaacagtttg aagatgaact tcatccagac ttgaaattca cgggggctgg aattctcgca 540
atggccaatg cggggccaga taccaatggc agccagttct ttgtgacct cgccccacc 600
cagtggtctt acggcaaaaca caccattttt ggccgagtg gtcagggcat aggaatgggtg 660
aatcgcgtgg gaatggtaga aacaaactcc caggaccgcc ctgtggacga cgtgaagatc 720
attaaggcat acccttcttg gtagacttgc taccctcttg agcagctctt ctgagatggc 780
cccagtgaac cagcttctag atgacataga atgacatgta atgctaaatt cattttggct 840
ttgcaagtca tgaagcttag gaggcctggc atcttgggtg agttagagat ggaagtacat 900
tttaatagga tgcttctttt ctcttcccc agtgccctagg ttgccagagc atttgcaaca 960
atgcccctgt ttatcaatag gtgactactt actacacatg aaccataatg ctgcttcttg 1020
tgcatgtctg ctctgatata cgtcgaacaa tgtagcagcc actgtcattt ctcagtgggt 1080
ttgcctaacc aaacttcttc ctaaggagat ttatatctg gcctacacag cagtccttga 1140
tggtgacag ccacagaatt ccaaaccaag tagtgtctgt cagccctctt aactctgtgc 1200
acgccctatt tcagtctttt acatttgttc ttctagggaa tgtatgcac tctatatata 1260
ttttccctct caaaaccaga acatcaacag tgctgtttct gacacttcag acatcccacg 1320
caaagccaca ttgaattttt gccaaatgaa aaacacatcc aacaatcaag tttctaagaa 1380
ggtgtcaagt ggggaataat aataatgtat aataatcaag aaattagttt attaaaagga 1440
agcagaagca ttgaccattt tttcccagag aagaggagaa atctgtagt agcaaaggac 1500
agaccatgaa tcctccttga gaagtagtac tctcagaaa gagaaagcgc actcaagttc 1560
ttttaaccca agacttttag gaaattaggt ccaagatttt tatatgttca gttgtttatg 1620
tataaaaata actttctgga ttttgtgggg aggagcagga gaggaaggaa gttaatacct 1680
atgtaataca tagaaacttc cacaataaaa tgccattgat ggttgaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaa 1757

```

<210> 1959

<211> 2856

<212> DNA

<213> Homo sapiens

<400> 1959

```

agcaagtatt ggtgatgtga cctgttcacg cagggaact tgaacattcg caggtaacac 60

```

1233

```

agaggatcgc ttcctggcag aatttgggag ctgtttattg cagcaactgtt gtccctctga 120
tgatgttaca gtggtttatc aaaatggggtt acctgtgata tctgtgaggc taccatccccg 180
gcgtgaacgc tgtcagttca cactcaagcc tatctytgac tctgttggtg tattttttacg 240
acaactgcaa gaagaggatc ggggaattga cagagttgct atctattcac cagatgggtgt 300
tcgcgttgct gcttcaacag gaatagacct cctcctcctt gatgacttta agctgggtcat 360
taatgactta acataccacg tacgaccacc aaaaagagac ctcttaagtc atgaaaatgc 420
agcaacgctg aatggatgta aagacattgg tccagcaact atacaccaca ctgtgcattg 480
agcagcacca gttaaacaag gaaagggagc ttattgaaag actagaggat ctcaaagagc 540
agctggctcc cctggaaaaag gtacgaattg agattagcag aaaagctgag aagaggacca 600
ctttggtgct atgggggtggc cttgcctaca tggccacaca gtttggcatt ttggccccggc 660
ttacctggtg ggaatattcc tgggacatca tggagccagt aacatacttc atcacttatg 720
gaagtgccat ggcaatgtat gcatattttt taatgacacg ccaggaatat gtttatccag 780
aagccagaga cagacaatac ttactatttt tccataaaagg agccaaaaag tcacgttttg 840
acctagagaa atacaatcaa ctcaaggatg caattgctca ggcagaaatg gaccttaaga 900
gactgagaga ccattacaa gtacatctgc ctctccgaca aattggtgaa aaagattgat 960
ctgcaaaaag cctctgaatc ctggcagaag gaacacctgt ttgccttttt aattaaagca 1020
ttgcaggtgg aagctgggag ccatgtgggg ggtagagcgt ttttaccttt aattataaaa 1080
caaaaacaga aaggatctga gggaagaagg gaatgttaaa acctgaggat caggcattgt 1140
ggaatataag ctcaaagggc ttagtgaata ttgtcttaac caagtatctc agtttctgga 1200
tgaaaatgat gcagttatat agttgagaga ttcataaaga gaaaacaatg ctgggggtgt 1260
tcgtttcttg catcttcttt gcagagtcag caaaaagagta acacaccagc accccactcg 1320
actctatttg tttttaattt aactgtccct atttttgaca taggagtaaa taaatatact 1380
agaaaagcaa attctcatga tatgctwaaa tatcattagc atttatttta aattggaccc 1440
artctctgca gagttaccag gaatctttcc ttcagcaty cctttactga ccacctamct 1500
gkacctcttg gktacactca tttttttcat ttgawaattg gaaccaactt ataactggtt 1560
aataattgca ctttagatta tctcttaata ccttcttaaa tgtctatata tcccagtgct 1620
ctggatcagt gtctaaaaat cactggcaac actgcatgag gttgttggtt ttgttttgtt 1680
ttattaatta gtctttcaca ggaggaataa ttgcctcct ttatatactt atctattgat 1740
aatccccctc cctccagaa cacaaatcag agggaaaggg ggtgttcagc tgtactacca 1800
aatcaggaag atgtaagggt taaaaattgg ctaagaatca tggctctgta gccatttcaa 1860
ccagaataat tttattgcta atctgctttg tgtgacagca ttccaggcca gccagatggg 1920
actgccttgt ctggaggctt tgttcatctc gaaggacaca cacttccaca ctgtttgtga 1980
gccctccac ctccacaact tcagttgtaa atcaagtgtg tggatctcaa aggggtgcaat 2040
ttatctttat ataggaatac atttctaggg cttccttcaa gccactctc ttcacctat 2100
tttttcttat cttaaattga gagaaagaga attaatctta tactttgtca aaacattttc 2160
taccatattt ccagatgaca tctgcgcttg aagagtcaaa ggaatctgtg tctaatatcc 2220
tgtttttaac tgctgtaggg gcaggatgga aaggatgatg ggggctgcca caccactgat 2280
tggccttttc tttcacgtga ttcaccttc ctcattgtgg caaggagttt ctttctcttt 2340
ttcttctcc tttgggatca ttgtgtatga aaagaaaaac tttaaatgac aaaccagac 2400
tccagggtgc ttgcaaagg tgaaggccag ccaggattgc tgctgctgct gctactcctg 2460
ccaacacccc tttcattggc atgacggaat gaaaggatgc atgtctccac ttcctgaccc 2520
tccgccact tccttctccc tccaccaccc ccagtcgtca gctccttccc tcatttat 2580
ttgttaagtt gtgtgaatta tttttaaccc atttatcctg tttgtgcata gggtttttaa 2640
gaagaaacag cacagtgcaa cgagcaaatc tttttggggt gtgtgggaag caaggagggg 2700
aggacatgga gaaaagttct ttaaacaaat agcaaactat tgaacatgtg taaaatcctg 2760
tatcatttat gaaatatgta taaaaagcaa tgtaccttct ggaacaataa atacttattc 2820
aatttttgaa aaaaaaaaaa aaaaaggggc ggccgc 2856

```

<210> 1960

<211> 1720

<212> DNA

1234

<213> Homo sapiens

<400> 1960

```

ccacgcgtcc gaaactttgt gctggaatca tgataactgc atctcacaat ccaaagcagg 60
ataatgggta taaggctctat tgggataatg gagctcagat catttctcct cagcataaaag 120
ggatttctca agctattgaa gaaaatctag aaccgtggcc tcaagcttgg gacgattctt 180
taattgatag cagtccactt ctccacaatc cgagtgttcc catcaataat gactactttg 240
aagaccttaa aaagtactgt ttccacagga gcgtgaacag ggagacaaaag gtgaagtttg 300
tgcacacctc tgtccatggg gtgggtcata gctttgtgca gtcagctttc aaggcttttg 360
accttggtcc tcctgaggct gttcctgaac agaaaagatcc ggatcctgag tttccaacag 420
tgaaataccc gaatcccga gaggggaaaag gtgtcttgac tttgtctttt gctttggctg 480
acaaaaccaa ggccagaatt gtttttagcta acgacccgga tgctgataga cttgctgtgg 540
cagaaaagca agacagtggg gaatggaggg tgttttcagg caatgagttg ggggccctcc 600
tgggctgggt gctttttaca tcttggaag agaagaacca ggatcgagc gctctcaaaag 660
acacgtacat gttgtccagc accgtctcct ccaaaatctt gcgggccatt gccttaaagg 720
aaggttttca ttttgaggaa acattaaactg gctttaagtg gatgggaaac agagccaaac 780
agctaataga ccaggggaaa actgttttat ttgcatttga agaagctatt ggatacatgt 840
gctgcccttt tgttctggac aaagatggag tcagtgccgc tgtcataagt gcagagttgg 900
ctagcttcct agcaaccaag aatttgtctt tgtctcagca actaaaggcc atttatgtgg 960
agtatggcta ccatattact aaagcttcct attttatctg ccatgatcaa gaaaccatta 1020
agaaattatt tgaaaacctc agaaactacg atggaaaaaa taattatcca aaagcttgtg 1080
gcaaatttga aatttctgcc attagggacc ttacaactgg ctatgatgat agccaacctg 1140
ataaaaaagc tgttcttccc actagtaaaa gcagccaaat gatcaccttc acctttgcta 1200
atggaggcgt ggccaccatg cgcaccagtg ggacagagcc caaaatcaag tactatgcag 1260
agctgtgtgc cccacctggg aacagtgatc ctgagcagct gaagaaggaa ctgaatgaac 1320
tggtcagtgc tattgaagaa cattttttcc agccacagaa gtacaatctg cagccaaaag 1380
cagactaaaa tagtccagcc ttgggtatac ttgcatttac ctacaattaa gctgggttta 1440
acttgttaag caatattttt aaggggccaa tgattcaaaa catcacaggt atttatgtgt 1500
tttacaaga cctacattcc tcattgtttc atgtttgacc ttttaagggtg aaaaagaaaa 1560
tggccaaacc caacaaacta acattcctac taaaaagttg agcttggaca tattttgaat 1620
ttttgtaagt gaagattttt aaactgacta acttaaaaaa atagattgta attgatgtgc 1680
cttaatttgc ataaatcata aatgtaaaaa aaaaaaaaaa 1720

```

<210> 1961

<211> 2854

<212> DNA

<213> Homo sapiens

<400> 1961

```

ggcacgagga gaaatcacag ggagatgtac agcaatgggg ccatttaaga gttctgtgtt 60
catcttgatt cttcaccttc tagaaggggc cctgagtaat tcactcattc agctgaacaa 120
caatggctat gaaggcattg tcgttgcaat cgacccaat gtgccagaag atgaaacact 180
cattcaacaa ataaaggaca tggtgaccca ggcattctctg tatctgtttg aagctacagg 240
aaagcgattt tatttcaaaa atgttgccat tttgattcct gaaacatgga agacaaaggc 300
tgactatgtg agacaaaaac ttgagaccta caaaaatgct gatgttctgg ttgctgagtc 360
tactcctcca ggtaatgatg aaccctacac tgagcagatg ggcaactgtg gagagaaggg 420
tgaaaggatc cacctcactc ctgatttcat tgcaggaaaa aagttagctg aatatggacc 480
acaaggtagg gcatttgtcc atgagtgggc tcatctacga tggggagtat ttgacgagta 540
caataatgat gagaaattct acttatccaa tggagaata caagcagtaa gatgttcagc 600
aggtattact ggtacaaatg tagtaaagaa gtgtcaggga ggcagctgtt acacaaaag 660
atgcacattc aataaagtaa caggactcta tgaaaaagga tgtgagtttg ttctccaatc 720

```

1235

```

ccgccagacg gagaaggctt ctataatggt tgcacaacat gttgattcta tagttgaatt 780
ctgtacagaa caaaaccaca acaaagaagc tccaaacaag caaaatcaaa aatgcaatct 840
ccgaagcaca tgggaagtga tccgtgattc tgaggacttt aagaaaacca ctcctatgac 900
aacacagcca ccaaattcca ccttctcatt gctgcagatt ggacaaagaa ttgtgtgttt 960
agtccttgac aaatctggaa gcatggcgac tggtaaccgc ctcaatcgac tgaatcaagc 1020
aggccagctt ttctgtctgc agacagttga gctgggggtcc tgggttggga tggtgacatt 1080
tgacagtgtc gcccatgtac aaagtgaact catacagata aacagtggca gtgacaggga 1140
cacactcgcc aaaagattac ctgcagcagc ttcaggaggg acgtccatct gcagcgggct 1200
tcgatcggca tttactgtga ttaggaagaa atatccaact gatggatctg aaattgtgtc 1260
gctgacggat ggggaagaca acactataag tgggtgtctt aacgaggtca acaaaagtgg 1320
tgccatcatc cacacagtgc ctttggggcc ctctgcagct caagaactag aggagctgtc 1380
caaaatgaca ggaggtttac agacatatgc ttcagatcaa gttcagaaca atggcctcat 1440
tgatgtcttt ggggcccttt catcaggaaa tggagctgtc tctcagcgtc ccatccagct 1500
tgagagtaag ggattaaccc tccagaacag ccagtggatg aatggcacag tgatcgtgga 1560
cagcaccgtg ggaaaggaca ctttgtttct tatcacctgg acaacgcagc ctccccaaat 1620
ccttctctgg gatccagtg gacagaagca aggtggcttt gtagtggaca aaaacaccaa 1680
aatggcctac ctccaaatcc caggcattgc taaggttggc acttggaaat acagtctgca 1740
agcaagctca caaaccttga ccctgactgt cacgtcccg tgcgtccaatg ctaccctgcc 1800
tccaattaca gtgacttcca aaacgaacaa ggacaccagc aaattcccca gccctctggt 1860
agtttatgca aatattcgcc aaggagcctc cccaattctc agggccagtg tcacagccct 1920
gattgaatca gtgaatggaa aaacagttac cttggaacta ctggataatg gagcaggtgc 1980
tgatgtact aaggatgacg gtgtctactc aaggatattc acaacttatg acacgaatgg 2040
tagatacagt gtaaaagtgc gggctctggg aggagttaac gcagccagac ggagagtgat 2100
accccgacag agtggagcac tgtacatacc tggctggatt gagaatgatg aaatacaatg 2160
gaatccacca agacctgaaa ttaataagga tgatgttcaa cacaagcaag tgtgtttcag 2220
cagaacatcc tcgggaggtc catthgtggc ttctgatgtc ccaaagtctc ccatacctga 2280
tctcttccca cctggccaaa tcaccgacct gaaggcggaa attcacgggg gcagtctcat 2340
taatctgact tggacagctc ctggggatga ttatgaccat ggaacagctc acaagtatat 2400
cattcgaata agtacaagta ttcttgatct cagagacaag ttcaatgaat ctcttcaagt 2460
gaatactact gctctcatcc caaagggaagc caactctgag gaagtctttt tgtttaaacc 2520
agaaaacatt acttttgaaa atggcacaga tcttttcatt gctattcagg ctgttgataa 2580
ggtcgatctg aaatcagaaa tatccaacat tgcacgagta tctttgttta ttctccaca 2640
gactccgcca gagacacctg gtcctgatga aacgtctgct ccttgtccta atattcata 2700
caacagcacc attcctggca ttcacattht aaaaattatg tggaaagtga taggagaact 2760
gcagctgtca atagcctagg gctgaattht tgtcagataa ataaaataaa tcattcatcc 2820
ttttttttga ttataaaaaa aaaaaaaaaa aaaa 2854

```

<210> 1962

<211> 4087

<212> DNA

<213> Homo sapiens

<400> 1962

```

gcgggaggat gggccgccc taggctcgca ctccggacgc gcctcgagc gcgcagggtg 60
ggtgccccgc gcctgcagcg tccgccccgg cggcgcgcg ggaggtggcc gacaggctcc 120
aggcctcgca gcctcagccc ccggcccagc gcgctttccg acggcgggcg cgcgccgagc 180
caccgccccg cccaaggctc ctgcggggcg ggagaacgga aaactcccaa cttcctgagt 240
tctaaagtth ctgttgcttc agacaatgga tgagcaatca caaggaatgc aagggccacc 300
tgttcctcag ttccaaccac agaaggcctt acgaccgat atgggctata atacattagc 360
caactttcga atagaaaaa aaattggctc cggacaatth agtgaagtht atagagcagc 420
ctgtctcttg gatggagtac cagtagctth aaaaaaagtg cagatatttg atttaatgga 480

```

1236

tgccaaagca	cgtgctgatt	gcatcaaaga	aatagatctt	cttaagcaac	tcaaccatcc	540
aaatgtaata	aaatattatg	catcattcat	tgaagataat	gaactaaaca	tagttttgga	600
actagcagat	gctggcgacc	tatccagaat	gatcaagcat	tttaagaagc	aaaagaggct	660
aattcctgaa	agaactgttt	ggaagtatct	tgttcagctt	tgcagtgcac	tggaacacat	720
gcattctcga	agagtcatgc	atagagatat	aaaaccagct	aatgtgttca	ttacagccac	780
tgggggtgga	aaacttggag	atcttgggct	tggccgggtt	ttcagctcaa	aaaccacagc	840
tgcacattct	ttagttggta	cgccttatta	catgtctcca	gagagaatac	atgaaaatgg	900
atacaacttc	aaatctgaca	tctggtctct	tggctgtcta	ctatatgaga	tggctgcatt	960
acaaagtcct	ttctatgggtg	acaaaatgaa	tttatactca	ctgtgtaaga	agatagaaca	1020
gtgtgactac	ccacctcttc	cttcagatca	ctattcagaa	gaactccgac	agttagttaa	1080
tatgtgcac	aaccagatc	cagagaagcg	accagacgtc	acctatgttt	atgacgtagc	1140
aaagaggatg	catgcatgca	ctgcaagcag	ctaaacatgc	aagatcatga	agagtgtaac	1200
caaagtaatt	gaaagtatct	tgtgcaagtc	atacctcccc	atctatgtct	ggtgttaaga	1260
ttaatatctc	agagctagtg	tgctttgaat	ccttaaccag	ttttcatata	agcttcattt	1320
tgtaccagtc	acctaaatca	cctccttgca	acccccaaat	gactttggaa	taactgaatt	1380
gcatgttagg	agagaaaatg	aaacatgatg	gttttgaatg	gctaaagggt	tatagaattt	1440
cttacagttt	tctgctgata	aattgtgttt	agatagactg	tcagtgccaa	atattgaagg	1500
tgcagcttgg	cacacatcag	aatagactca	tacctgagaa	aaagtatctg	aacatgtgac	1560
ttgtttcttt	tttagtaatt	tatggacatt	gagatgaaca	caattgtgaa	cttttgtgaa	1620
gattttatct	ttaaacgttt	gaagtactag	ttttagttct	tagcagagta	gttttcaaat	1680
atgattctta	tgataaatgt	agacacaaac	tatttgagaa	acatttagaa	ctcttagctt	1740
atacattcaa	aatgtaacta	ttaaatgtga	agatttgggg	acaaaatgtg	agtcagacac	1800
tgaagagttt	tttgttttgt	tttaatatct	ttgatattct	ctttgcattg	aaatggtata	1860
aatgaatcca	tttaaaaagt	ggttaaggat	ttgttttagct	ggtgtgataa	taatttttaa	1920
agttgcacat	tgcccaaggc	tttttttgtg	tgtttttatt	gttgtttgta	catttgaaaa	1980
atattctttg	aataaccttg	cagtactata	tttcaatttc	tttataaat	taagtgcatt	2040
ttaactcata	attgtacact	ataatataag	cctaagtttt	tattcataag	ttttattgaa	2100
gttctgatcg	gtcccccttc	gaaatttttt	tatattatct	ttcaagttac	tttcttattt	2160
atattgtatg	tgcattttat	ccattaatgt	ttcatacttt	ctgagagtat	aatacccttt	2220
taaaagatat	ttggtatacc	aatacttttc	ctggattgaa	aacttttttt	aaacttttta	2280
aaatttgggc	cactctgtat	gcatatgttt	ggtcttggtt	aagaggaaga	aaggatgtgt	2340
gttatactgt	acctgtgaat	gttgatacag	ttacaattta	tttgacaagg	ttgtaattct	2400
agaatatgct	taataaaaatg	aaaactgggc	atgactacag	ccagaactgt	tatgagatta	2460
acatttctat	tgagaagctt	ttgagtaaag	tactgtatct	gttcatgaag	atgactgaga	2520
tggtaacact	tcgtgtagct	taaggaaatg	ggcagaattt	cgtaaagtgt	gttgtgcaga	2580
tgtgttttcc	ctgaatgctt	tcgtattagt	ggcgaccagt	ttctcacaga	atttgtgaagc	2640
ctgaaggcca	agagggaagtc	actgttaaag	gactctgtgc	catcttacaa	ccttggtatga	2700
attatcctgc	caacgtgaaa	acctcatgtt	caaagaacac	ttcccttttag	ccgatgtaac	2760
tgctgggttt	gttttttcata	tgtgtttttc	ttacactcat	ttgaatgctt	tcaagcattt	2820
gtaaacttaa	aaaatgtata	aaggggcaaaa	agtctgaacc	cttgttttct	gaaatctaata	2880
cagttatgta	tgggtttctga	agggtaatct	tatttttgaa	taggttaaagg	aaacctgttt	2940
tgtttgtttt	tcctgagggc	tagatgcatt	ttttttctca	cactcttaata	gacttttaac	3000
atattatactg	agcatccata	gatatatctc	tagaagtatg	agaagaatta	ttcttattga	3060
ccattaatgt	catgttcatt	ttaatgtaata	ataattgaga	tgaaatgttc	tctggttgga	3120
acagatactc	tctttttttt	cttgcaatct	ttagaataac	atagatctaa	aattcattag	3180
cttgaccctt	caaagtaact	tttaagtaaa	gattaaagct	tttcttctca	gtgaatatat	3240
ctgctagaag	gaaatagctg	ggaagaatct	aatgatcagg	gaaattcatt	atctctatat	3300
gtggaaactt	tttgcttcga	atattgtatc	tttttaaatc	taaatgttca	tatttttctt	3360
gaagaaacca	ctgtgtaaaa	atcaaatctt	aattttgaat	ggaataatct	caaagaacta	3420
tgaagatgat	ttgaagctct	aattttatata	gtcacctata	aaatgttctt	tatatgtgtt	3480
cataagtaaa	tttttatattg	attaagttaa	acttttgaat	tgattttgagg	agcagtaaaa	3540

1237

```

tgaaagctat atctattcta aaccttattt agacattggt accagttacc caggtgaaaa 3600
tatggagtaa ctttgttttg tatggtaagg tttaggaatg gtggatgaag ggtatctcta 3660
tataaataaa gtgctcaaca atgtgcaatg attgtaaatt tagtaagata ttacagccat 3720
ttcatgaatg ctttaccatt caacatagta tctattacaa aacacctttc ttgtatccat 3780
atacttcagg tgttgctggt aacatttact atgatattta ttttaaccaa aatgttactc 3840
acattaaatg tttattcttt aaaatgaatg tattatgttt ttaaccacaa aatgcatact 3900
taccctgtgc ctcatatttc aatagtactg taatatggac atcttttgtg aaatactttt 3960
attttgttat gctttaaata tacatacaaa aagattttctg ttattagctt tgaaaattgt 4020
ataatatect aatataaaca aaaatataaa aataaaaaatg aatacagtaa aaaaaaaaaa 4080
aaaaaaaaa 4087

```

<210> 1963

<211> 801

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (801)

<223> n equals a,t,g, or c

<400> 1963

```

cggggggtcat cttcttctctg gccctgctgc tgtgcattgc gcttctkctg tctactcca 60
tccacctcct gctgacctgt gctggatttg cagggaactgg ttcttgaagg gaaacctcct 120
catcatcatc gtcagtgtgt taatcatcct gccctctgcc ctcatgaaac acttgggcta 180
cctgggggtac accagtggtc tctctctgac ctgcatgctg ttttctcttg tttcgggtcat 240

```

1238

```

ctacaagaag ttccaacttg gctgtgctat aggccacaat gaaacagcaa tggagagtga 300
agctctctgtg ggactcccca gccaaaggact caacagcagc tgtgaggccc agatgttcac 360
agttgactca cagatgtcct acacagtgcc cattatggct tttgcttttg tctgccaccc 420
tgaggtgctg cccatctata cggagctctg ccgttccacg acctctacac ctcaggccct 480
ccaagcgcag gatgcaggcc gtggccaacg tgtccatttg ggccatgttc tgcattgtatg 540
ggctcacagc aaccttttga tacctcacct tctacagcag tgtgaaggcg gagatgctgc 600
acatgtacag ccagaaggac ccgctcatcc tctgtgtgcg cctggccgtg ctgcttcgcn 660
ggtgaccct cactgtgcc gtcgtgctgg ttccatccg ccgggccctg gaagcaactg 720
cttttcccag gcaagggcct ttancttggc cagcacattg tnggccatta gcntttgaat 780
ccttgctttg ntttgggtca n 801

```

<210> 1964

<211> 1626

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1607)

<223> n equals a,t,g, or c

<400> 1964

```

cggacgcgtg ggcggacgcg tgggaaaagg tgaacaaatc tttccttcag gtagatgctg 60
gatagtcttt ggagcttgta gtagggctcc atgagcactg cccacagctg ctttctgtac 120
catctgaggt catctcatcc ttaagagaac ttttaggacc agacaggaat gctcatctct 180
ctgtgccag tagttctctg ggggtggcct gaggtgact tgtctgtagt cactgagttc 240
atttactttt attttctagg ctttatgatg ggaaatggag taaaacaatg gtgggatttg 300
ggcctgagga tgatcatttt gtgcgagaac tgacttacaa ttatggcgtc ggagactaca 360
agcttggcaa tgactttatg ggaatcacgc tcgcttctag ccaggctgtc agcaacgcc 420
ggaagctgga gtggccactg acggaagtgt cagaagggtg ttttgaaacc gaggccccc 480
gaggatataa gttctatttg cagaatcgca gtctgcctca gtcagatcct gtattaaaag 540
taactctagc agtgtctgat cttcaaaagt cttgaaacta ctggtgtaat ctactgggaa 600
tgaaaattta tgaaaaagat gaagaaaagc aaagggtctt gctgggctat gctgataacc 660
aggtgagcaa tcttgagaa gaataacctg ttactttgaa tttggcttgt aaacgaagct 720
tataaatggc ttataacctt tataaatgaa gttaacatga aggttggtcc catagtttct 780
tcacagtgat tcaatattta tatagataaa cagaagaaaa taagtgataa ccttaccacc 840
cagatattac cttgtttata tttggggata tatctcttca gaagtggaaat tgcttaatcc 900
aagagattga atggatttaa tgcaagatct ttttcatctt ctttttctaa taaccacgcg 960
tttgagcacg atttagtcct tgcactttga ccttgcaatt ctactcctag gaattatttt 1020
acagatgtgc tcaacatata tcggcacaaa gaagtgtgtg caaggktatc tgctgcagca 1080
ttgtctgtaa tcacaatgtg taagaatttc agtgtcctat agattagaga catatttcag 1140
taatttacgg ctcatcatg gaatggatta ctatgtcgtc agcaaaaaga ttgaggcaaa 1200
tctttatgta ttgacatggg aacattaagt ggagaaaaac aagggaacaga ataatttgta 1260
aattatacca ccatttgtgt aaaaaaaaaa acatagatgc gtgcagtgtc tctagaagga 1320
tacacaggaa actgtggact agttgtctct ggggtgagag taggrtagag actcagtttt 1380
tactttattc ctttagtata taatatttga atttttctac cacatacgtg taatgaatgt 1440
ataacctgtc caaaaaataa ccccttttcc ytttcagtgt agstggagct acagggcgtc 1500
aagggtgggg tggaccatgc agcagctttt ggaagaattg ctttctcttg ccccagaaa 1560
gaggtaacgc ttgataccag atcgttttag ctttctgact agctagntca acccagctaa 1620
gaactt 1626

```

1239

<210> 1965
<211> 590
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<400> 1965
tccgcaccgg gactcgggac tcccgggaag tggaccggca gaagaggggg ctagctagct 60
gtctctgcgg accagggaga ccccgcgccc ccccggtgtg gaggcggcct cacagggccg 120
ggtgggcttg cgagccgacg cggcggcgga ggaggctgtg aggagtgtgt ggaacaggac 180
ccgggacaga ggaaccatgg ctccgcagaa cctgagcacc ttttgctgt tgctgctata 240
cctcatcggg gcggtgattg ccggacgaga tttctataag atcttggggg tgccctgaag 300
tgccctctata aaggatatta aaaaggccta taggaaacta gccctgcagc ttcacccga 360
ccggaaccct gatgatccac aagcccagga gaaattccag gatctgggtg ctgcttatga 420
ggttcttgtc agatantgag aaacggaaac agtacgatac ttatggtgaa naaggattaa 480
aagatgggtca tcagagctcc atggagacat tttttacact tctttgggga tttgggttat 540
gttggangaa ccctgtngaa gacagaattt ccagaggaat gtntattgaa 590

<210> 1966
<211> 1970
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

1240

<220>
 <221> misc feature
 <222> (81)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1964)
 <223> n equals a,t,g, or c

<400> 1966
 nggtgaaggg caatcagctg ttgccgtctc actggtgaaa agaaaaacca ccttggcgcc 60
 caatacgcaa accgcctctc nccgcgcgtt ggccgattca ttaatgcagc tggcacgaca 120
 ggtttcccga ctggaaaagcg ggcagtgagc gcaacgcaat taatgtgagt tagctcactc 180
 attaggcacc ccaggcttta cactttatgc ttccggctcg tatgttgtgt ggaattgtga 240
 gcggataaca atttcacaca ggaaacagct atgaccatga ttacgccaag ctctaatacg 300
 actcactata gggaaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc 360
 cacgcgtccg actagttcta gatcgcgatc tagaactagt cccacgcgt ccgcttgaag 420
 cacagggtgag ggatcctggc ccacagcctc agccccactc tgcctctcca cagggtgcaa 480
 gaggagtgcc ctttcgggtc cttcggcttc cagtgtcac agcgtgtga ctgccacaat 540
 gggggggcagt gttcacccac cacgggtgcc tgcgagtgtg agcctggcta caagggccca 600
 cgctgccagg agcgactgtg cccggaggggc ctgcatggcc caggctgcac cctgccctgc 660
 ccctgtgacg ctgacaacac catcagctgc caccagtaa ctggagcttg tacctgccag 720
 ccaggctggt ctgggtacca ctgcaatgaa tcctgccctg ttggctacta tggcgatggc 780
 tgccagctgc cttgcacctg tcagaatggc gccgactgcc acagcatcac tgggggctgc 840
 acttgtgtc cgggcttcat gggagaggtc tgtgccgttt cctgtgcagc agggacctat 900
 ggcccaact gctcgtccat ctgtagctgt aacaatggtg gcacctgctc cccagtagat 960
 ggctcctgta cctgcaagga aggggtggcag ggcctggact gcacctgcc atgtcccagt 1020
 gggacgtggg gcctgaactg caacgagagc tgcacctgtg ccaatggggc agcctgcagc 1080
 cccatagacg gtcctgtctc ctgcaactcct ggctggctgg gagacacctg tgagctgcct 1140
 tgcccggatg gcacatttgg gctgaactgc agtgaacact gtgactgcag ccatgctgat 1200
 ggatgtgacc ccgtcacagg ccaactgctgc tgccctggccg gatggacagg catccgctgt 1260
 gacagcacgt gtccacctgg ccgctggggc cccaactgct ctgtctcctg cagctgtgag 1320
 aatggaggct cctgtctccc agaggatggg agctgcgagt gtgcccctgg cttccgagga 1380
 cccttatgcc agagaatctg ccccccctggg ttctatggcc acggctgcgc ccagccatgc 1440
 cccctctgcy tgcacagcag caggccctgc caccacatca gcggcatctg tgagtgcctc 1500
 ccaggattct ctggagctct ctgcaaccaa gctagcaagt ggcagaaaca aattctgatt 1560
 ccgacatgca tgctgaaggg atgaaaagtg aaacaagcac agagatctgc atcagaagtg 1620
 gcacctgtg gtctgtgccc agtgccaagg gtaaaggcag agaattgctgt gggagtgcag 1680
 aggagctggc tctggctgga gatggcaact tccaagccct tctccccgtc atattcaggc 1740
 caccatccct aatccctccc catatgcttt cctgacttga cctcagaatc cttcacaata 1800
 ccgactccaa gaactgctac cactcagcag gagttgaaaa gagatataaa gcttatttgc 1860
 attggtgttc caccctacca gctctttgtg ggggaaaaac cctgatctgt aacatctgca 1920
 gattttttaa atataaatat tcctaccaa aaaaaaaaaa aaanaaaaaa 1970

<210> 1967
 <211> 1222
 <212> DNA
 <213> Homo sapiens

1241

<220>
 <221> misc feature
 <222> (1198)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1199)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1219)
 <223> n equals a,t,g, or c

<400> 1967
 gcctgggttc ccascgggtt cscagaggt ggaagaaacc cgaracgttc cgaagtcaac 60
 gcaagcaaag gggagtgcgg gtcggggagg aatattcttt tggaacgta atattggcct 120
 tggggctctc cagccctttg ggacttccaa tgggatctta gaagcagccg aagcagcgtg 180
 agggcggcas ccagggccag ccacgatttg aacgctctgc cttgcagctc ttctggaccg 240
 aggagcccaa agccctaccc tcaccattca ccaggtcctg tgggaagagc agcgtggagr 300
 tgggctgagg ttagaagggtg cagagcgtgg aagaagattg tgagctgagt attggacatc 360
 tgttcttgaa tagtccctgg gcctgccata ggaaaggaag ttctccaggg ttacagttct 420
 tatccgcgtg aatacacatg gctctgttac gaaaaattaa tcaggtgctg ctgttccttc 480
 tgatcgtgac cctctgtgtg attctgtata agaaagtcca taaggggact gtgccaaga 540
 atgacgcaga tgatgaatcc gagactcctg aagaactgga agaagagatt cctgtggtga 600
 tttgtgctgc agcagggagg atgggtgcc ctatggctgc catcaatagc atctacagca 660
 aactgacgc caacatcttg ttctatgtag tgggactccg gaatactctg actcgaatac 720
 gaaaatggat tgaacattcc aaactgagag aaataaactt taaaatcgtg gaattcaacc 780
 cgatggctct caaagggagg atcagaccag actcatcgag gcctgaattg ctccagcctc 840
 tgaactttgt tcgattttat ctccctctac ttatccacca acacgaagaa agtcatctat 900
 ttggacgatg atgtaattgt acaagggtgat atccaagaac tgtatgacac caccttggcc 960
 ctgggccacg cggcgggttt ctcatgatgac tgcgatttgc cctctgctca ggacataaac 1020
 agactcgtgg gacttcagaa cacatatatg ggctatctgg actaccggaa gaaggccatc 1080
 aaggaccttg gcatcagccc cagcacctgc tctttcaatc ctggtgtgat tgttgcaaca 1140
 tgacagaatg gaagcaccar cgcatacca agcaattgga gaaaggatgc aaaagaanng 1200
 gaggaaaacc tttttgcang tt 1222

<210> 1968
 <211> 1438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (7)

1242

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1424)

<223> n equals a,t,g, or c

<400> 1968

```

nccccggnctt naggaattcg gcacgagaaa aaagaaaaga aaagaaaaga aaaaaaaagg 60
tgctcaacat tactgatcat cagagaaatg caaatcaaaa ctccagttag atatcatctc 120
ccttttagtta aaatggctta tatccaaaag gcagaaaata acaaatgcaa ggatgtggag 180
gaaagggaac ccttgtatac tgttgggtgta catagtgggt gaaccactat ggagaacaat 240
ttggaagttc ctcaaaaaaa caaaaaatag agctaccata tgacccagca atcccactgt 300
tggttatata cccaaaagga aggaaatcag tatattgaag agatacctac actcccatgt 360
ttgttgcagc actgttcaca atagctaaga tttgaaggca acctaagtgt ccatcaacag 420
atgaatggat acagaaaatg tggtagctat acacaatggg tactagttag cctgggtgac 480
agagttagac tgtctcaaaa aaaaagaaac aaagaaagat aaataaagaa aaagacattg 540
atgaacagta ggtaatcacc tgaagggtaca aaactcactc gtaatagtaa gtatgcaggg 600
aaaaaaagat ttttgtaaca ttgtaactat gtgtgtaatc tactcttata ctaagtagaa 660
atctagactt agaattctaatt gctgccactg atctgacagg aggcggaact cagacagtaa 720
tgttcccttg cctgtacttc acctctgct gtgtggccca gtttctaaca ggccacagac 780
tggtactgggt ttgcggcctg ggggttgggg acccctgggt tatcagatag aattgcaagc 840
ctcatggttaa cctcaaacca aaaaacattc aatgaatata caacaaataa aaagcaagaa 900
agtaaattat atcaccagag aaaatcagct tcacttaagg aagacaggaa ggaaagaagg 960
aaggaagaga agaccacaaa acaaccagaa aacaagtaac aatatggcag gaataagtct 1020
ttattttatta gtaataacaa tggactaaac tctccaatca aaagatggag tggctaaata 1080
gataaaaaaa aacaagaccc attgattygy mgcctacaag aactacattt cacctataaa 1140
gacacmcata gactgaaaat aaaggggtat aaaagatact ccatgccaac agaaaccaa 1200
aaagagcagg agttgctata cttacatcag acaaaacaga ttttaagaca aaaatctata 1260
agaagagaca aagaaggtca ctatataatg ataaggggtc aatgcagcag aggattayaa 1320
tttaattttat gaccacatga gactgattta ngaatatata gagtagaagg taagtatcat 1380

```

1243

atctggatna tccatgagat gcaattcgcg aatacaagac tngnttttgt gctagata 1438

<210> 1969

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<400> 1969

agctcgtgct aaacctcttt tctttataaa ttaccacagtg atgtgggttg gctgtgtccc 60
caccctaaatc tcatcttgaa ttccctacgtg ttgtggggagg gaccacagtgg taggtaattg 120
aatcatggcg gcaggctctt cccttgctat tctcgtgatc atgaataagt ctcatgagat 180
ctgatgattt taaatactgg agtttcccct gcacaagctc tctctttgcc tgctgccagc 240
catgtaagac atgacttgct cctycttgcc ttccatcatg attgtgaggc cttcccagcc 300
acgtggaaact gtaagtccat taaacctctt tttttttata aatggccaag tctcaaatat 360
gncctttatca acagcgtgaa atggactagt accgtaaatt ggtaccaata gaatggggca 420
ctgcttaaaa gatcccgaat atgtgaaaagc gacttttgga ctgggtaata ngcaaaaagg 480
tgcantgaac ttaaaatcat tgccactgna cttcaacctg ggc 523

<210> 1970

<211> 775

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

1244

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (774)

<223> n equals a,t,g, or c

<400> 1970

```

nnnnaytagt tttgcanagc tatttaggtg acactataga aggtacgcct gcaggtaccg 60
gtcccggaatt cccgggtcga cccacgcgct cggaaggctc cagaggctgt gggaagcagc 120
acatcagcga cagctcctgg ctgctggact ccgcaggagg ggaaggaaga ttggtcgcaa 180
tgtcccagca gaagtgcac gtgatctttg ccctgggtgtg ctgctttgcc attctggttg 240
cactgatctt ttcagccgtg gacatcatgg gagaggatga ggatggactc tcagaaaaaa 300
attgccaaaa taaatgtcga attgccctgg tggaaaatat tcctgaaggc cttaactatt 360
cagaaaaatgc accatttcac ttatcacttt tccaaggctg gatgaattta ctcaacatgg 420
ccaaaaagtc tgttgacata gtgtcttccc attgggatct caaccacact catccatcag 480
catgtcaggg tcaacgtctt tttgaaaagt tgctccagct gacttcgcaa aatattgaaa 540
tcaagctagt gagtgatgta acagctgatt caaagggtatt agaagccttg aaattaaagg 600
gagccgaggt gacgtacatg aacatgaccg cttacaacaa gggccggctg cagtcctcct 660
tctggatcgt ggacaaacag cacgtgtata tcggcagtcg cggtttggac tggcaatccc 720
tgggacaggt acatatactt ctatatagct gtaaatagat gatatggttt gtgnt 775

```

<210> 1971

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

1245

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<400> 1971

```
gaacaagctg ttactaatgt actggagttt ctgtgcaaac tgtctaccat aaaccatgaa 60
aggattcaaa gttcatagtt ctttctttgt tcctttgtta atnactgact tcnnactagt 120
gggagggtgcc tccaagttt gctaatacat tctttttgga taaggatgac gcacagattg 180
tcctaataag gacttagatt gagaaaagacc gccccctctg agaagagggg acaagtcaga 240
gagagggcg gcatgtttctt ttttaactag ggatgacaca agcataagtc atttccttat 300
taattgggtc aaaccagttc ttacaggaac tagtggtgat aaatgtggga cttctgagaa 360
gtcattcatt ttattctttg tgccatacca gagtacagta tcagctgagc tgaccttact 420
ctgaggacta actcttttgc tggaagcggg ttctgattta cagctcttgg tttctcccag 480
acatgttggg gggagagatt ttgggtttta aggggttgtt agatggagta aattttcttt 540
tttttttttt ttttttttaa ctaaaaaggg gtcacagaat ttcagcagtt ctctgatttt 600
tataatttat tcctcttcct atccaatccc tgccctttga gtccagggtg taagtacatt 660
ttctttaacg tttttcttgc ttttcttccc aaatgtgtct ttttctttgg gctactgtac 720
cctgcttcca gtgctgtccc cggcataggt ccatctctgc agaagccatt tcaggagtac 780
ctggaggctc aacggcgagaa gcttcaccac aaaagcgaaa tgggcacacc acagggagaa 840
aactggttgt cctggatggt tgaaaagtgt gtcgttgtca tgggtgtgta cttcatccta 900
tctatcatta actccatggc acaaagtatt gccaaacgaa tccagcagcg gttgaactca 960
gaggagaaaa ctaataaagt agagaaagt tttaaactgca gaaattggag tggatgggtt 1020
ctgccttaaa ttggggaggac tccaagccgg gaaggaaaat tcccttttcc aacctgtatc 1080
aatttttaca acttttttcc tgaaagcagt ttagtccata ctttgcactg acat 1134
```

<210> 1972

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

1246

<220>
 <221> misc feature
 <222> (451)
 <223> n equals a,t,g, or c

<400> 1972
 gcggnttcgt gggctgctct gcactctcag gtattccctg ctcttactcc aaaaagatgg 60
 acccaggtcc gaaggggcac tgccactgtg gggggcatgg ccattcctcca ggtcactgcg 120
 ggccaccccc tggccatggc ccagggccct gcggggccacc cccccaccat ggtccagggc 180
 cctgcggggc accccctggc catggcccag ggccctgcgg gccaccccccc caccatgggtc 240
 cagggccctg cgggcctccc cctggccatg gcccaggtca cccacccccct ggtccacatc 300
 actgaggaag tagaagaaaa caggacacaa gatggcaagc ctgagagaat tgcccagctg 360
 acctggaatg aggcctaaac cacaatcttc tcttcctaataaacagcctc ytanaggcca 420
 cattctattc tttaaaaaaa aaaaaanaa n 451

<210> 1973
 <211> 1385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1303)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1307)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1360)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1382)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1385)
 <223> n equals a,t,g, or c

<400> 1973
 aagagaaaga tgctactgtc tctaattctcc ctgtcatttt tatttccagc aggcgcgggg 60
 cgaaggagct gctagaacaa tgctgaggcg ggtgaggtga ggagcagccc ctgcgggcag 120
 ccccgacaga gtgtctggaa caggtgattg gaggagccgg agaccaggc acctgggcat 180
 ccttccccctc gcctctgccca ggccccgcgc ccctaaaagg tgggaaaacc atggcgacca 240

1247

```

atttcagtga catcgtcaag caaggctacg tgaagatgaa gagcaggaag ctcgggatct 300
accggagggtg ctggctggtg ttccggaaat cctccagcaa ggggccccag cggctggaga 360
agtatccaga tgagaagtcg gtgtgcctcc ggggctgccc caagggtgact gagatcagca 420
acgtcaagtg tgttacgagg ctccccaagg agaccaagcg gcaggcgggtg gccatcatat 480
tactgatga ctcggcacgt accttcacct gcgactcaga gctagaggca gaggagtgg 540
acaagacact atctgtggag tgtctggggg cccgcctcaa cgacatcagt ctgggagaac 600
ctgacctcct ggccccaggg gtgcagtgtg aacagacaga tcgcttcaat gtcttcctgc 660
tgccctgccc caacctggac gtgtatggcg agtgcaagct gcagatcacc cacgagaaca 720
tctacctctg ggacatccac aacccccgtg tgaagctcgt ctctgggsc cctctgctyam 780
tgcgccgcta tggccgggat gccacacgct ttaccttcga ggctggccgg atgtgtgatg 840
ctggggaagg actctatacc ttccagacac aagaggggga gcagatttac cagcgcgctc 900
acagtgccac cctggccatc gcagagcagc acaagcgggt cctgctggaa atggagaaga 960
cgtgaggctg ctgaacaagg gcacggaaca ttactcgtat cctgcacac ccacgaccat 1020
gctgcsgcgc agtgccactt ggcaccacat cactggttcc cagaacatcg ccgaagcctc 1080
cagctatgct ggtgagtcgc ttccatgccc cacacccacc tgccaggagg ctttgtggag 1140
gatgaggcct gttgggcagg ggtcttttga cctagctctg agttctgagc ctgcttctgt 1200
gccacaggt gacgggtatg gggcaagccc agggcagctc ggaaacagac ctctcaacag 1260
attcatcctg ctaaagccaa agcccagcca gggggacaag cantgangcc aagaccccat 1320
cccagtgaca cagtgtctggc gagcacgcat gactggtggn ggctgctgct tgcgggctgg 1380
cntcn 1385

```

<210> 1974

<211> 748

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<400> 1974

```

tacgccncca ggccccggtc cggaattccc gggctcgacc acgcgtccgc tttaaccaga 60
cagctcagac ctgtatggag gctgccagt acaggttagg tttagggcag agaagaagca 120
agaccatggt ggggaagatg tggcctgtgt tgtggacact ctgtgcagtc agggtgaccg 180
tcgatgccat ctctgtggaa actccgcagg acgttcttcg ggcttcgcag ggaaagagtg 240
tcacctgccc ctgcacctac cacacttcca cctccagtcg agagggactt attcaatggg 300
ataagctcct cctcactcat acggaaaggg tggctcatctg gccgttttca aacaaaaact 360
acatccatgg tgagctttat aagaatcgcg tcagcatatc caacaatgct gaggagtcgg 420
atgcctcate accattgate agctgaccat ggctgacaac ggcacctacg agtggtctgt 480
ctcgtgatg tcagacctgg agggcaacac caagtcacgt gtccgcctgt tggctcctgt 540
gccacctccc aaaccagaat gcggcatcga gggagagacc ataattggga acaacatcca 600
gctgacctgc caatcaaagg agggctcacc aacccctcca gtacagctgg aaagargtta 660
caacatcctg aatcargagc agcccctggc ccasccacct caggttcaac ctgttctccc 720
ttaaaaaata tctcccacag aacacatc 748

```

<210> 1975

<211> 771

<212> DNA

<213> Homo sapiens

1248

<400> 1975

```

ggccacgagg tacgtcccgg cgctccgctt ggcccaagat ggcggcctcc gtgtgcagcg 60
ggttgctggg gccacgggtg ctgtccctgga gccgagagct gccttgcgct tggcgcgccc 120
tgcacacctc cccggtctgc gccagaacc gggcgccccg agtacgcgta agcaaggggg 180
acaagccggg gacctacgag gaggcacacg cgccgcacta catcgcccac cgtaaagggt 240
ggctgtcgct gcacacaggt aacctggatg gagaggacca tgccgcagag cgaacgggtg 300
aggatgtttt ccttcgcaag ttcattgtgg gtaccttccc aggctgcctg gctgaccagc 360
tggtttttaa gcgccggggg aaccagttgg agatctgtgc cgtggctcctg aggcagttgt 420
ctccacacaa gtactacttc ctctgtgggt acagtgaac tttgctgtcc tacttttaca 480
aatgtcctgt gcgactccac ctccaaactg tgccctcaaa ggttgtgtat aagtacctct 540
agaacaatcc ctttttttcc atcaagctgt agcctgcaga gaattggaaac gtgggaaagg 600
aatggatatg gggggaaatg catccctca gaggaactgag gcatagtctc tcatctgcta 660
ttgaataaag accttctatc ttgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg g 771

```

<210> 1976

<211> 1712

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1688)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1692)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1697)

<223> n equals a,t,g, or c

<400> 1976

```

ccgcgcgttg gccgattcat taatcagctg gcacgacagg tttcccgact ggaaagcggg 60
cagtgagcgc aacgcaatta atgtgagtta gctcactcat taggcacccc aggctttaca 120
ctttatgctt ccggctcgta tgttgtgtgg aattgtgagc ggataacaat ttcacacagg 180
aaacagctat gacctgatt acgccaagct ctaatacgac tcactatagg gaaagctggg 240
acgcctgcag gtaccggtcc ggaattcccc ggtcgaccca cgctccggg ccctaggaga 300
taagagtatc ttgcacagca ggtgcagggt tcccagcagc tcaggcaaga gtccgatgtt 360
tgtgccatct gatcctgatg tctggagaga tagccatgtg tgagcctgaa tttggcaatg 420
acaaggccag ggagccgagc gtgggtggca ggtggcgagt gtccctggtac gaacggtttg 480
tgcagccatg tctggtcgaa ctgctgggct ctgctctctt catcttcac gggtgcctgt 540
cggtcattga gaatgggacg gacactgggc tgctgcagcc ggccctggcc cacgggctgg 600
ctttggggct cgtgattgcc acgctgggga atatcagtgg tggacacttc aacctgcgg 660
tgtccctggc agccatgctg atcggaggcc tcaacctggg gatgctcctc ccgtactggg 720
tctcacagct gctcgggggg atgctcgggg ctgccttggc caaggcgggt agtcctgagg 780
agaggttctg gaatgcatct gggcgggcct ttgtgacagt ccaggagcag gggcagggtg 840
caggggcgtt ggtggcagag atcatcctga cgacgctgct ggccctggct gtatgcatgg 900

```

1249

```

gtgccatcaa tgagaagaca aagggccctc tggccccgtt ctccatcggc tttgccgtca 960
ccgtggatat cctggctggg ggccctgtgt ctggaggctg catgaatccc gcccggtgctt 1020
ttggacctgc ggtggtggcc aaccactgga acttccactg gatctactgg ctggggccac 1080
tcctggctgg cctgcttggt ggactgctca ttaggtgctt cattggagat gggaagaccc 1140
gcctcatcct gaaggctcag tgaagcagag ctctgtggat tctgtctgct ccagggtgtcc 1200
tcagctcacc tgteccagac tgaggacagg ggagttcctg catttccctgc cagggcagag 1260
gccagagga gcgacccctt gcttccactg cttgggcctg ctttctcaga tagactgact 1320
gctgaggagg ctctaggttc ttggaattcc tttgtgctca tcagagaccc cagcctgggg 1380
aacacgctgc ccgcactgcc cagagagcag tgcaaacacc acaacacgag cgtgtttctt 1440
gagaggaatg tccccgagtt ggacaaggag gctgtttctg cacatcagct catttcccg 1500
accccatttc ttktttgatt gctttgttgg gggcctggcc acttccctgc ttctcaagct 1560
gacaattctg cactttgcaa taaatagtcc agtgtttcct tccaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaang gnggccnttt taaaggatcc aa 1712

```

<210> 1977

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 1977

```

atggtgtgac tcggccgacg cgagcgccgc gcttcgcttc agctgctagc tggcccaagg 60
gaggcgaccg cggagggtgg cgagggggcg ccaggacccg cagccccggg gccgggccgg 120
tccggaccgc cagggagggc aggtcagtgg gcagatcgcg tccgcgggat tcaatctctg 180
cccgtcttga taacagtcct tttccctggc gctcacttcg tgccctggcac ccggctgggc 240
gcctcaagac cgttgtctct tcgatcgctt ctttggactt ggcgaccatt tcagagatgt 300
cttccagaag taccaaagat ttaattaaaa gtaagtgggg atcgaagcct agtaactcca 360
aatccgaaac tacattagaa aaattaaagg gagaaattgc acacttaaag acatcagtgg 420
atgaaatcac aagtgggaaa ggaaagctga ctgataaaga gagacagaga tttttngaga 480
aaattcgagt ccttgagg 498

```

<210> 1978

<211> 4485

<212> DNA

<213> Homo sapiens

<400> 1978

```

gtaacttctc gggaagatga ggcagtttgg catctgtggc cgagttgctg ttgccgggtg 60
atagttggag cgggagactta gcataatggc agaacctgtt tctccactga agcactttgt 120
gctggctaag aaggcgatta ctgcaatctt tgaccagtta ctggagtttg ttactgaagg 180
atcacatttt gttgaagcaa catataagaa tccggaactt gatcgaatag ccaactgaaga 240
tgatctggta gaaatgcaag gatataaaga caagctttcc atcattgggtg aggtgctatc 300
tcggagacac atgaagggtg catttttttg caggacaagc agtgggaaga gctctgttat 360
caatgcaatg ttgtgggata aagtttctcc tagtgggatt ggccatataa ccaattgctt 420
cctaagtgtt gaaggaactg atggagataa agcctatctt atgacagaag gatcagatga 480
aaaaaagagt gtgaagacag ttaatcaact ggcccatgcc cttcacatgg acaaaagattt 540

```

1250

```

gaaagctggc tgtcttgtac gtgtgttttg ccaaaagcaa aatgtgccct cttgagagat 600
gacctggtgt tagtagacag tccaggcaca gatgtcacta cagagctgga tagctggatt 660
gataagtttt gcctagatgc tgatgtcttt gttttggtcg caaactctga atcaacacta 720
atgaatacgg aaaaacactt ttttcacaag gtgaatgagc ggctttccaa gcctaataat 780
ttcattctca ataatcgttg ggatgcctct gcatcagagc cagaatataat ggaagacgta 840
cgcagacagc acatggaaag atgcctgcat ttcttggtgg aggagctcaa agttgtaaat 900
gctttagaag cacrgaatcg tatcttcttt gtttcagcaa aggaagttct tagtgctaga 960
aagcaaaaag cacaggggat gccagaaagt ggtgtggcac ttgctgaagg atttcatgca 1020
agattacagg aatttcagaa ttttgaacaa atctttgagg taggaatttt gtgattgtat 1080
tgcctaatac aaaactcttt ctttggttgg agaaagcata atcttctatt tttatccttt 1140
gtctttgtca ataacttttg ctgttattta gtttagttac tgacacagcc agtaaaatgt 1200
ggaaagtga gaaaaggagc ccctgcaaaa tgatttgtaa gaattgagaa ttaaagattg 1260
taatttattc cttattctta tttttatgta ttttatataa ataagaaact gtgtttcaat 1320
attgctgtgt tgtgcaatga atgaaattcc ctgtattcaa taatttgga caagagtaaa 1380
caagcgtaat tgctgttggg atggataata gagcaagta agcattatcc ttttttactt 1440
tgtgccgcat gactaataga agtatacaaaa acatgattaa tgccatttga caaaatttta 1500
ttatatttat atactgtgtt accacatgtc cattctccat attttgtgcc aaacattcta 1560
aatgaataat tgagtagaaa agagcttcag cgttttcaga aacttctagg aaactattga 1620
agtgcctgag tggtagatgg ggagggaggg tagtttctta tgttgcatg taagtgtttt 1680
tattcagaga cattaaaact caccctacat ttgactgaat agttcttttag atattaacct 1740
tctgaacccc tattttgccc tgtataattc atatcacctt cccacttagg aatgaacaca 1800
gtgacttcag cattgaagaa acctcagtc gtaattattc ttataagtag taactgcttt 1860
aatgtaaaagg ggacatgaat gttgagtata cttggcagga tttttaaaat aaaaaatgtg 1920
cttactatct ctcatcttta atttggtgag agaaaaaagg ttattagaca gatgaagaca 1980
aactggaaga aagcaaatcc actgccagct atctcgataa gatctaattg ttcagaggct 2040
actggattat cagtagatgt cctctcaagc caagctatag gatacgtgaa gtccccgtta 2100
ctcaaagact attgtttgtt ttttttcttt tctttttgct ttcaccaaag ggttgatgct 2160
ctcctcacct cttttttctc ttaaagaaat gggatctccc tctgttatcc aggctggagt 2220
gcagttgggc aatcatagcg cattgcagcc tcgaactcct gggctcaaat ggtcctccca 2280
cctcagcctc ctctcctcac tgttatcagt tatttcatcc atggggaaaa tatgtaggga 2340
gaggatctat tctacttctt tgtctttatt tactgacctt agtatatatg tgttttatgt 2400
atgtttatca ttgatttctt ctaaattata catttatata atgtataatt gtgtaatgtt 2460
ctgttacaca ttataactgc ttccatattg gttcatggta tagcttgtgc ttcccaagaa 2520
tatctcgttg aggaggtggg aatgagaaga ataagatatg ctgtagggaa ttggttcata 2580
agcctagctg atcatcagaa tcacatgacg tgcttttagag aaccacaggc tcctgacct 2640
tcctatcccc aacccagat ccagggggtt ggggttggc taggaatcta tatacatata 2700
tattcaaagt tccccagtg attgcaataa tcagacagac ttaggaacta ttctttttta 2760
atgttttttag aggaaacttg gcagtttatg ttttattcta atggtccatt tgggattcta 2820
aaatttatgt atggaaaaaa ttgcttatga gcagtagctt tttgttttta cttaaagtca 2880
tggratgtcc agcttttagag tttgaaaatt taaagtctga aatatctaaa atgagaatca 2940
gttaaaaatt atttgaattt ttccaaacaa tcagctgggc aaaaaatatt atgtctgaat 3000
gtattaaaaa gagacaaaac attttttgtt aattaattac attgaaagt ttagtcagct 3060
ttattccaaa actggtattt gttacttctt aagtcagttt tggtaatttc tgatttctta 3120
gaaattggtg tatttctgaa catttataat ttagtagcat aaaattgttt gttttgaatc 3180
tcttgtttct cacttctata tttaaatata aatatatata tacatatata tacacacaca 3240
gacctttaat gggtttgcca atgatttatc atccaaagac acagccccag ctcttatgta 3300
atztatcact taataaataat catttttggg gtttcattca ctaagttctt tttttttttt 3360
tttttttttt tgagacagag tctcgtctct tcgccgccag gctggaatga gggagtgaat 3420
gcagcggcgc gatgtcagct cactacaacc tccggtcctt gggttcaagg gactcttctg 3480
cctcagcttc cctagtagct gggactacag gggcacacca ctacatccgg ctaattttttg 3540
tatttttagt agagacgggg ttacacagtg ttggccagga tggctctcat ctctgacct 3600

```

1251

```
catgatccac ccgccttggc ctcccaaagt gctgggacta caggcgtgag ccaccgtgcc 3660
tggcctgtgt tcgtctttaa cattgtttac gttgaagatg cattggtttt tgcttattct 3720
taaagaaaaag attcaggatt gtgaatttgt gactgcagct ttaggcgtat cccaaggttt 3780
tcagtactag tttagttttt gttgtttttg tttctaatta tccttttggc atttccttat 3840
caatataaga cttttttaaaa ttcaagtgtt ttgattcatt ttatccaatt tttggttact 3900
aatttcttgg tttctttgtg ttgtggtcac atcatgtggc ttttacacac attttctctg 3960
ttttggggat ttgctacttt tttttgtagt cgtgcaagat tttttgtgaa aagaaaaact 4020
gtatcaagtt catcaccttt atcaatttga cctgtgccgt gaacttcttt agattcattt 4080
gattcaaatg gatctaagta ttttaaacad ttagaatact aatttaagca aggcttgaaa 4140
attaaatgga gtaaaagcaa taaaaaaaaat caatattagc ctgggcattg gtggctcatg 4200
ccagtaatgc cagtactttg ggatgccaaa gcaggaagat ctcttgagct taggagattg 4260
agatcagggt gggcaaaaac atgaaaagac taaatcacat ctctagcagg aaaaaaaaaa 4320
aatccagata tgatagctca tgactatagt cacagctacc ccagaggctg aggtggaagg 4380
ccaagaagtt tgaggctgtg gtgatggtga gctatggagg taccactgtg ctccaacctg 4440
tgtgacagag tgagactctc ttttctttca aaaaaaaaaa aaaaaa 4485
```

<210> 1979

<211> 2486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2465)

<223> n equals a,t,g, or c

1252

<220>

<221> misc feature

<222> (2470)

<223> n equals a,t,g, or c

<400> 1979

```

ngnacgttna tcttccaagg ncccaactata gaaggtagcg ctgcaggtag cgggtccggaa 60
ttccccgtcg acccacgcgt ccgcgggacgc gtggggcgag gcgtggggcg agccccggag 120
ccccggccag ggtccacctg tccccgcagc gccggctcgc gccctcctgc cgcagccacc 180
gagccgccgt ctagcgcccc gacctcgcca ccatgagagc cctgctggcg cgcctgcttc 240
tctgcgtcct ggtcgtgagc gactccaaag gcagcaatga acttcatcaa gttccatcga 300
actgtgactg tctaaatgga ggaacatgtg tgtccaacaa gtacttctcc aacattcact 360
ggtgcaactg cccaaagaaa ttcggagggc agcactgtga aatagataag tcaaaaacct 420
gctatgaggg gaatggtcac ttttaccgag gaaaggccag cactgacacc atggggccggc 480
cctgcctgcc ctggaactct gccactgtcc ttcagcaaac gtaccatgcc cacagatctg 540
atgctcttca gctgggcctg gggaaacata attactgcag gaaccagac aaccggaggc 600
gacctgtgtg ctatgtgcag gtgggcctaa agccgcttgt ccaagagtgc atgggtgcatg 660
actgcgcaga tggaaaaaag cctcctctc ctccagaaga attaaaattt cagtgtggcc 720
aaaagactct gagggcccg ctttaagatta ttgggggaga attcaccacc atcgagaacc 780
agccttggtt tgcggccatc tacaggaggc accggggggg ctctgtcacc tacgtgtgtg 840
gaggcagcct catcagccct tgctgggtga tcagcgccac aactgcttc attgattacc 900
caaagaagga ggactacatc gtctacctgg gtcgtcaag gcttaactcc aacacgcaag 960
gggagatgaa gtttgagggtg gaaaacctca tctacacaa ggactacagc gctgacacgc 1020
ttgtcacca caacgacatt gccttgctga agatccgttc caaggagggc aggtgtgctg 1080
agcatcccg actatacaga ccatctgcct gccctcgatg tataacgatc cccagtttg 1140
cacaagctgt gagatcactg gctttgaaa agagaattct accgactatc tctatccgga 1200
gcagctgaaa atgactgttg tgaagctgat tccccaccg gagtgtcagc agccccacta 1260
ctacggctct gaagtcacca ccaaatgct gtgtgctgct gaccacagc ggaaaacaga 1320
ttcctgccag ggagactcag ggggacctt cgtctgttcc ctccaaggcc gcatgacttt 1380
gactggaatt gtgagctggg gccgtggatg tgccctgaag gacaagccag gcgtctacac 1440
gagagtctca cacttcttac cctggatccg cagtacacc aaggaagaga atggcctggc 1500
cctctgaggg tccccaggga ggaaacgggc accaccgct ttcttgctgg ttgtcatttt 1560
tgcagtagag tcatctccat cagctgtaag aagagactgg gaagataggc tctgcacaga 1620
tggatttgcc tgtgccaccc accagggyga acgacaatag ctttaccctc aggcataaggc 1680
ctgggtgctg gctgccaga cccctctggc caggatggag ggggtgtcct gactcaacat 1740
gttactgacc agcaacttgt ctttttctg actgaagcct gcaggagtta aaaagggcag 1800
ggcatctcct gtgcatgggt gaaggagag ccagctcccc cgacggtggg catttgtgag 1860
gcccattggt gagaaatgaa taatttccca attaggaagt gtaacagctg aggtctcttg 1920
agggagctta gccaatgtgg gagcagcggg ttggggagca gagacactaa cgacttcagg 1980
gcagggtctt gatattccat gaatgtatca ggaaatatat atgtgtgtgt atgtttgcac 2040
acttgttgtt gggctgtgag tgtaagtgtg agtaagagct ggtgtctgat tgttaagtct 2100
aaatatttcc ttaaactgtg tggactgtga tgccacacag agtggctctt ctggagaggt 2160
tataggtcac tcttggggcc tcttgggtcc cccacgtgac agtgcctggg aatgtattat 2220
tctgcagcat gacctgtgac cagcactgtc tcagtttcac tttcacatag atgtcccttt 2280
cttggccagt tatcccttcc ttttagccta gttcatccaa tctcactgg gtggggtgag 2340
gaccactcct tacactgaat atttatattt cactattttt atttatattt ttgtaatttt 2400
aaataaaaagt gatcaataaa atgtgatttt tctganaaaa aaaaaaaaaa aaaaccgagg 2460
ggggnccggn accaattcgc cctaaa 2486

```

<210> 1980

<211> 915

1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (724)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (845)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (848)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (855)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 1980

ggagcgcaac gcaattaatg tgagtttagct cactcattag gcaccccagc ctttacactt 60
tatgtctccg gctcgtatgt tgtgtggaat tgtgagcggg taacaatttc ncacaggaaa 120
cagctatgac catgattacg ccaagctcga aattaaccct cactaaaggg ancaaaaagct 180
ggagctccac cgcgggtggcg gccgctctag aactagtggg tcccccgkkc tgcaggaatt 240
cggcagcaga ggacataaca gaagcaatag agactaccat tagtcttgaa acagcacgtg 300
cagaccatcc gaagcctgta actgtgaaac cagtaacaac ggaacctcag agtccagatc 360
tgaacgatgc cgtgtccagt ttgcgaagtc ctattcccct cctcctgtcg tgtgcctttg 420

1254

```

ttcaggtggg gatgtatttc atgtagaagg tggaagaagg ctgctatgac tctttggatg 480
ggagtctggc aagaggaaat tggaagataa aataaataat aagtgaaata aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaact cgaggggggg cccggtaccc aattcgccct atagtgagtc 600
gtattacaat tcaactggccg tcgtttttaca acgtcgtgac tgggaaaacc ctggcggttac 660
ccaacttaat cgccttgcag cacatccccc tttegccagc tggcgtaata gcgaagaggc 720
ccgnaccgat cgcctttcaa cagttgcgca acctgaatgg cgaatggcaa attgtaaagc 780
gttaatatatt tggtaaaaatt cgcggtaaat tttggtaaat caagntcatt ttttaaccaa 840
taggnccnaa tcggnaaaaat cccttataaa tcaaaaaggaa tttganccgg gaatagggtt 900
gaatggttgt tccaa 915

```

<210> 1981

<211> 1427

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 1981

```

ggaaaaatctt ctgacactat ntaaggnacg cctgcnggta ccggtccgga attccccgggt 60
cgacccacgc gtccgggggaa gctcgtggcg ctggctcctgc tgggggtcgg cctgtcctta 120
gtcgggggaga tgttcctggc gtttagagaa aggggtgaatg cctctcgaga agtggagcca 180
gtagaacctg aaaactgcc aactattgag gaacttgaaa gtggctctga agatattgat 240
atacttccta gtgggctggc ttttatctcc agtggattaa aatatccagg catgccaaac 300
tttgcgccag atgaaccagg aaaaatcttc ttgatggatc tgaatgaaca aaacccaagg 360
gcacaagcgc tagaaatcag tgggtggattt gacaaagaat tatttaatcc acatgggatc 420
agtattttca tcgacaaaga caatactgtg tatctttatg ttgtgaatca tccccacatg 480
aagtccactg tggagatatt taaatttgag gaacaacaac gttctctggt atacctgaaa 540
actataaaaac atgaacttct caaaagtgtg aatgacattg tggttcttgg accagaacag 600
ttctatgcc aagagacca ctattttacc aactccctcc tgtcattttt tgagatgatc 660
ttggatcttc gctggactta tgttcttttc tacagcccaa gggagggtta agtgggtggc 720
aaaggatttt gtagtgccaa tgggatcaca gtctcagcag accagaagta tgtctatgta 780
gctgatgtag cagctaagaa cattcacata atggaaaaaac atgataactg ggatttaact 840
caactgaagg tgatacagtt gggcacctta gtggataaacc tgactgtcga tcttgccaca 900
ggagacattt tggcaggatg ccacctaact cctatgaagc tactgaacta taaccctgag 960
gaccctccag gatcagaagt acttcgcac cagaatgttt tgtctgagaa gccaggggtg 1020
agcaccgtgt atgccaacaa tggctctgtg cttcagggga cctctgtggc ttctgtgtac 1080
catgggaaaa ttctcatagg caccgtattt cacaaaactc tgtactgtga gctctagact 1140
ctagatagta aaaaaaaaaa aaaaagtct acatatattt taaaagtaaa ctgataattg 1200

```

1255

tatgataagt ggcactgtaa gtaaataagca aacaccaacc agtgagtgtg gcttttctta 1260
tggatagaag taaaggagca gacagagatt ccttgatagc catcaaattg caagtcaggt 1320
taatgacagt ccaacaagaa gccaaacttt acggatcttt gttagcagcc ccaatgttct 1380
ttctacaata aaacatgtgg actatgtcca gtgaggcttc cgactca 1427

<210> 1982

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (682)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<400> 1982

tgctgatgca ggccatctcc ctcttctccn cagaccgtcc aggtgtgctg cagcaccgcg 60
tggatggacca gctgcaggag caattcgcca ttactctgaa gtcctacatt gaatgcaatc 120
ggccccagcc tgctcatagg ttcttggtcc tgaagatcat ggctatgctc accgagctcc 180
gcagcatcaa tgctcagcac acccagcggc tgctgcgcat ccaggacata cacccttttg 240
ctacgcccct catgcaggag ttgttcggca tcacaggtag ctgagcggct gcccttgggt 300

1256

```

gacacctccg agaggcagcc agacccagag ccctctgagc cgccactccc gggccaagac 360
agatggacac tgccaagagc cgacaatgcc ctgctggcct gtctccctag ggaattcctg 420
ctatgacagc tggctagcat tcctcaggaa ggacatgggt gccccccacc ccagttcag 480
tctgtaggga gtgaarccac agactcttac stggagagtg cactgacctg taggtcagga 540
ccatcagaga ggcaagggtg ncctttcttt taaaaggccc tgtggctcntg gggagaaatn 600
cctcagatcc cactaaaagt gtcaangtgt tgaaagggac caaagccgac caaaggatag 660
ggcattcctg ggggtctaata gncccaacaa taccacacnt tttgggttcg g 711

```

<210> 1983

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<400> 1983

```

aaaasgtmac gctgacagg tmaccggatc cgggaattcc cgggtcgacc cacggcgtcc 60
gcatttgcaa taacagaaaa ggaattgcat gtatgaagtt ttcaatcgtg ggcttttctt 120
tgttgtgggg aggggggtcgg gggatagttt gatttccatt ttctgaaaac gacagacttg 180
gattctgttt gtgtgtgcat attttatcca gccttaagtt ataaagctca tctgtcccgc 240
tgcattccct gtgtattttc aggacatggc tcgtgggtgt gtgtgttcat tgtgtgcgtc 300
tgtatgtatt ttntgtcat cactgttccc tctcctccc agtgtgcatt cagttaatat 360
aatcagttgc ttgntctttt caaagtgcct tgaaagtctg aactcatgtg tgagcatttt 420
atcaactatc ccaattgcag ttctccatca caaatctcct attggccngt acccctgaga 480
atagttttaga gaatggaata agcngtctgg aagatagcta gcg 523

```

<210> 1984

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1257

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<400> 1984

```
atctactagg agtcaggggtg taagcctaga gaggatgaaa gaaggggagg ggatgggggag 60
tggtagaac ctaggatttg aattcccage ctggccaacc cttgcagcca tgtcttggcc 120
tcaagtggaa caagggctcc ttgaggccag cagggttggg ggagttgggg tgggcctgag 180
cctctttcct gctagagctc ttggctcctc ctgcctccac caccatccc tgctctgcag 240
aaccctggg tgctgagtgg caggagcccc agggttgtcc catctgggta tggctggctg 300
ggtcactaac ttctgtgatc tgcttccttc ctttccagat tatgcggatc aaacctcacc 360
aaggccagca cataggagag atgagcttcc tacagcacia caaatgtgaa tgcagancaa 420
agnaagatag agcaagacaa gaaaatccct gtgggccttn ctca 464
```

<210> 1985

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

1258

<223> n equals a,t,g, or c

<400> 1985

```

atggaaaaac gccagcaacg cggccttttt acggttcctg gccttttgnt ggcccttttgc 60
tcacatgttc tntcctgcgt tatccctga ttntgtggat aaccgtatta ccgcctttga 120
gtgagctgat accgntcgcc gcagccgaac gaccgagcgc agngagtcag tgagcgagga 180
agcgggaagag cgcccaatac gcaaaccgcc tctccccgc gcgttgccg atttcattaa 240
tgcagctggc acgacagggt tcccgactgg aaagcgggca gtgagcgcaa cgcaattaat 300
gtgagttagc tcactcatta ggcaccccag gctttacact ttatgcttcc ggctcgtatg 360
ttgtgtggaa ttgtgagcgg ataacaattt cacacaggaa acagctatga ccatgattac 420
gccaagctcg aaattaaccc tactaaagg gaacaaaagc tggagctcca ccgcggtggc 480
ggccgctcta gaactagtgg atccccggg ctgcaggaat tcggcacgag catggttgtt 540
gcaaaaacttt cttctatttc ttctcctcct ggtattctca ttactctgtt tcaccttgtg 600
tagttgtccc acagtcttgg atatcatctt ctgttctttt cagtgtttct tttctttagt 660
tttcgaagtt tctgatgata aatcctcaag ctccagagatt ctttactcag ctgagtccag 720
tctactaata agccatcaga ggtattcttc agttatttaa cacatttttt accactacat 780
tatgttgaag tttcttacga tgtctgtctt tctgattaca ttacccatct acacttgaat 840
gctgtctact tcattcatta gacccttagc atattctcca gaggtttaaa aaaattttcca 900
aaatcataac tttgtctgct tctgaagctt gctctgttga cacaaattgt atttttttct 960
ttttttggat tttagtatgc cttgcaattt tttcccttta ttctcatgca tgaagcacc 1020
cactaaargt gactgytggt agtatagctt tartaatgcg gtgatgargt gacagggcag 1080
gtgatgctct cttagtctct ttargctact ataacaaaat acttttagact gagccsaata 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac tcgagggggg 1200
gcccgcacca attcgcccta ctacgtgcgt cga 1233

```

<210> 1986

<211> 1583

<212> DNA

<213> Homo sapiens

<400> 1986

```

ctgtgggtc acctccgagc cacctctgct gcgcaccgca gcctcggacc tacagcccag 60
gatactttgg gacttgccgg cgctcagaaa cgcgccaga cggccctcc accttttgtt 120
tgcctaggggt cgccgagagc gcccgagggg aaccgcctgg ccttcgggga ccaccaattt 180
tgtctggaac caccctcccg gcgtatccta ctccctgtgc cgcgaggcca tcgcttact 240
ggaggggtcg atttgtgtgt agtttgggtga caagatttgc attcacctgg ccaaaccct 300
ttttgtctct ttgggtgacc ggaaaactcc acctcaagtt ttcttttgtg gggctgccc 360
ccaagtgtcg tttgttttac tgtagggtct cccgccggc gccccagtg ttttctgagg 420
gcggaaatgg ccaattcggg cctgcagttg ctgggcttct ccatggccct gctgggctgg 480
gtgggtctgg tggcctgcac cgccatcccg cagtggcaga tgagctccta tgcgggtgac 540
aacatcatca cggcccaggc catgtacaag gggctgtgga tggactgcgt cacgcagagc 600
acggggatga tgagctgcaa aatgtacgac tcggtgctcg ccctgtccgc ggcccttgag 660
gccactcgag ccctaattgg ggtctccctg gtgctgggct tcctggccat gtttgtggc 720
acgatgggca tgaagtgcac gcgctgtggg ggagacgaca aagtgaagaa ggcccgata 780
gccatgggtg gaggcataat ttcatcgtg gcaggtcttg ccgccttggg agcttgctcc 840
tggtatggcc atcagattgt cacagacttt tataaccctt tgatccctac caacattaag 900
tatgagtttg gccctgccat ctttattggc tgggcagggt ctgccctagt catcctggga 960
ggtgcactgc tctcctgttc ctgtcctggg aatgagagca aggctgggta ccgtgcacc 1020
cgctcttacc ctaagtccaa ctcttccaag gagtatgtgt gacctgggat ctccctgccc 1080
cagcctgaca ggctatggga gtgtctagat gcctgaaagg gcctggggct gagctcagcc 1140
tgtgggcagg gtgccggaca aaggcctcct ggtcactctg tcctgcact ccatgtatag 1200

```

1259

```
tccctcttggg ttgggggtgg gggggtgccg ttggtgggag agacaaaaag agggagagtg 1260
tgctttttgt acagtaataa aaaataagta ttgggaagca ggcttttttc ccttcagggc 1320
ctctgctttc ctcccgctca gatccttgca gggagcttg aaccttagtg cacctacttc 1380
agttcagaac acttagcacc ccactgactc cactgacaat tgactaaaag atgcagggtgc 1440
tcgtatctcg acattcattc ccacccccct cttattttaa tagctaccaa agtacttctt 1500
ttttaataaaa aaaataaaga tttttattag gtataaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaa                                     1583
```

<210> 1987

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1987

```
tgaaaaccat ccgtctgcc a cgtggctgg cccccagccc ccaacctcca tcctgcagga 60
gggtccgaag tgcttttct ctaaccagat tctgtcttct ctccagcagc ctgccccacc 120
aaggagatcc aggttaaaaa gtacaagtgt ggcctcatca agccctgccc agccaactac 180
tttgcgttta aaatctgcag tggggccgcc aacgtcgtgg gccctactat gtgctttgaa 240
gaccgcatga tcatgagtc tgtgaaaaac aatgtgggca gaggcctaaa catcgccctg 300
gtgaatggaa ccacgggagc tgtgctggga cagaaggcat ttgacatgta ctctggagat 360
gttatgcacc tagtgaaatt ccttaaagaa attccggggg gtgcaactgg gctggtggcc 420
tcctacgacg atccagggac caaaatgaac gatgaaagca ggaaactctt ctctgacttg 480
gggagttcct acgcaaaaaca actgggcttc gggacagtgg g                                     521
```

<210> 1988

<211> 346

<212> DNA

<213> Homo sapiens

<400> 1988

```
gcttgagtcc agatcttgta ctctctcat atttcttctg aaacatttaa aagtgtacat 60
tggttgtaaa atgtcaaaaca ttacttactt catacttttt tcctccaatc tttattttcac 120
agttgttcag gggatgaagg aagctcagga aaggctgacg ggtgatgcct tcagaaagaa 180
acatcttgaa gatgaattgt aacatgaatg tgccccctt ttcacagar ttagtgttct 240
ggaaggaaag cagcagggaa agggaatatt gaggaatcmt ctagaacaat taagccgamc 300
aggaaactca tycctaccta cctggaaaga mgtccccccc ccccc                                     346
```

<210> 1989

<211> 952

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (944)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (945)

<223> n equals a,t,g, or c

1260

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<400> 1989

```
ggcacgaggc cctcgcggcc tggccccgcc ggcgccggcg cgcccgccgc ccgggggggat 60
gtcttacaaa ccgaacttgg ccgcgcacat gcccgccgcc gccctcaacg ccgctgggag 120
tgtccactcg ccttccacca gcatggcaac gtcttcacag taccgccagc tgctcagtga 180
ctacggggcca ccgtccctag gctacacca gggaaactggg aacagccagg tgccccaaag 240
caaatacgcg gagctgctgg ccatcattga agagctgggg aaggagatca gacccacgta 300
cgcaggggagc aagagtgcc tggagaggct gaagcgcggc atcattcacg ctagaggact 360
ggttcgggag tgcttggcag aaacggaacg gaatgccaga tcctagctgc cttgttggtt 420
ttgaaggatt tccatctttt tacaagatga gaagttacag ttcattctcc ctgttcagat 480
gaaacccttg ttttcaaaat ggttacagtt tcgtttttcc tcccatgggt cacttggtct 540
tgaacctaca gtctcaaaga ttgagaaaag attttgcagt taattaggat ttgcatttta 600
agtagttagg aactgcccag gttttttttg ttttttaagc attgatttaa aagatgcacg 660
gaaagttatc ttacagcaaa ctgtagtttg cctccaagac accattgtct ccctttaatc 720
ttctcttttg tatacatttg ttacccatgg tgttctttgt tccttttcat aagctaatac 780
cactgtaggg attttgtttt gaacgcata tgcagcacg ctttacttag tagccgggtc 840
ccatttgcca tacaatgtag gttctgctta atgtaacttc ttttttgctt aagcatttgc 900
atgactatta gtgcttcwwa gtcaattggg ccrkgcactt tttnntnaga gg 952
```

<210> 1990

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1261

<222> (357)

<223> n equals a,t,g, or c

<400> 1990

```
atnanccttc actaaaggga acaaaagcng gngnctccac cgcggtgtcg gccgctctag 60
aactagtggg tcccccgggc tgcaggaatt cggcacgagt attgggacag gtggctttgc 120
aaaggtcaaa cttgcctgcc atatccttac tggagagatg gtagctataa aaatcatgga 180
taaaaacaca ctagggagtg atttgccccg gatcaaaacg gagattgagg ccttgaagaa 240
cctgagacat cagcatatat gtcaactcta ccatgtgcta gagacagcca acaaaatatt 300
catggttcctt gagtactgcc ctggaggaga gctgtttgac tatataattt cccaggntcg 360
cctgtcagaa gaggagaccc gggttgtctt ccgtcagata gtatctgctg ttgcttatgt 420
gcacagccag ggctatgctc acagggacct caagccagaa aatttgctgt ttgatgaata 480
tcataaatta aagctgattg actttggtct ctgtgcaaaa cccaagggtg acaaggatta 540
ccatctacag acatgctgtg ggagtctggc ttatgcagca cctgagttaa tacaaggcaa 600
atcata                                           606
```

<210> 1991

<211> 1097

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (905)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (940)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1031)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1080)

<223> n equals a,t,g, or c

1262

<400> 1991

```

tcgacccacg cgtccgggtgc agtacgagct gtgggccgcg ctgcctggcg cctccgggggt 60
cgccctggcc tgctgcttcg tggcggcggc cgtggccctg cgctgggtccg ggcgccggac 120
ggcgggtggcg cgggtgggtccg ggcgcgacag aggcagcgag cgggcctgga gaacatggac 180
agggcggcgc accttccggc tccagaaccc agacctggac tcagaggcgc tgctagccct 240
gccctgcct cagctgggtgc agaagttaca cagtagagag ctggcccctg aggccgtgct 300
mttcacctat gtgggaaagg cctgggaagt gaacaaagg accaactgtg tgacctccta 360
tctggctgac tgtgagactc agctgtctca ggccccaagg cagggcctgc tctatggcgt 420
ccctgtgagc ctcaaggagt gcttcaccta caagggccag gactccacgc tgggcttgag 480
cctgaatgaa ggggtgccgg cggagtgcga cagcgtagtg gtgcatgtgc tgaagctgca 540
gggtgccgtg cccttcgtgc acaccaatgt tccacagtcc atgttcagct atgactgcag 600
taacccccctc tttggccaga ccgtgaaccc atggaagtcc tccaaaagcc cagggggytc 660
ctcagggggt gaaggggccc tcatcgggtc tggaggytyc cccctgggyt taggcactga 720
tateggaggc agcatccgyt tccccctc cttctgcggc atctgcggcc tcaagcccac 780
agggaaacccg mctcaatgcg tctctcctg ggcccatgg cccgggacgt ggaaaagcct 840
ggcacttgtg cctgcgaacc ctgcttggtc caaggacatg tttccgcttg gacccaatgt 900
gcctnccctg cccttnaaga agaggtctac accaagtttn aaccctgcg tgtggggtac 960
tatgagaatt gacaactata ccatgccttc ccggcatgaa gcggccctgc ttggaaacaa 1020
acagagctta ngttggggga cacctgcaag ctgcanttct aaaacataag ctgtcgggtgn 1080
aattggaatt gaacaat 1097

```

<210> 1992

<211> 903

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (745)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (801)

<223> n equals a,t,g, or c

1263

<400> 1992

```

ncnaaattaa ccctcactaa agggaacaaa agctggagct ccaccgcggt gncgtccgct 60
ctagaactag tggatcccc gggtgcagg aatcggcac gaggcacctt cttcaagatg 120
gagctttttg aaggcatgcg agagagcacc aagatttcat ctctgttggc agaattggag 180
gcaattcaaa gaaattcagc atcccaaaa agtgtcattg tctctcagtg gaccaacatg 240
ctgaaagtgt tagcattgca cctgaagaag catggactga cttatgccac catcgatggc 300
tctgtcaatc ccaagcagag aatggacttg gtagaggcat ttaaccactc cagaggccct 360
caggtaatgc taatctctct cttggccgga gtgttggtct aaacctgact ggaggaaatc 420
acctctttct tttggacatg cactggaatc catcacttga agatcaagct tgtgaccgaa 480
tttaccgagt agggcagcag aaagatgttg tcatacacag rtttgtttgt gagggaacag 540
tagaagaaaa gatcttacag ctccaagaaa aaaagraaga tttggccaaa caagttctat 600
cagggctctgg agaattctgt accaagctca ctttggtga cctcagagtc ctttttggca 660
tctaacctcc tgtggataag ggctcagaat agcaccattg ctgtgatgtt gcacctgtaa 720
ccatcttttt atgggtggag caganagtca atccctgcag ccacctgca gccagccatc 780
tctgcagttc tctcagtga ngcagttctt cctctcaggc tgaagatcaa ggagatgctt 840
tgtwcatgaa cagatgctga rtatctgtta tcattgtatt gtttartgtc agtgtatcat 900
tta
903

```

<210> 1993

<211> 2999

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2996)

<223> n equals a,t,g, or c

<400> 1993

```

ttttttttta ttttttggtt tagcatttaa taggcacata atcaacattt actgttcaat 60
tgaaacaaaa ttaaaattgg gcgctgtctc tatctttatt tgtgatcggc cctaactgca 120
ctggcaatct tttccgtttt tttgttttct gttttccatt cgcattgcccc ttagcgtacc 180
tggggctccg gctcctttac aaatgaaacc caaagtgtct cgaagcacag ccagcgaaaag 240
ganaaaactct gaaacggaca agatggctgc cacctcttcg cgcctcttag tccccccac 300
tcagggcgga ggtctgcgtc atgtgaccct ccccttcttg gctccgctcc taccgcagt 360
cttgacggga ggcggacggg gaacgaggcc gtccggcattt tgtgtctgct tcctgtggga 420
cgtgggtggt gccgttgggt tgggaaagtg agggattttt ggccctcggtt ctccctgttc 480
ttttctcctc ctttttactt tgccggtaga acacagttat gggctcgcaag aagaagaagc 540
agctgaagcc gtgggtgctgg tattgtaata gagattttga tgatgagaag atccttattc 600
agcaccaaaa agcaaagcat tttaaatgcc atatatgtca caagaaattg tatacaggac 660
ctggccttagc tattcattgc atgcagggtac ataaagaaac aatagatgcc gtaccaaatg 720

```


1264

```

caatacctgg aagaacagac atagagttgg aaatatatgg tatggaaggt attccagaaa 780
aagacatgga tgaaagacga cgacttcttg aacagaaaac acaagaaagt caaaaaaaga 840
agcaacaaga tgattctgat gaatatgatg atgacgactc tgcagcctca acttcatttc 900
agccacagcc tgttcaacct cagcaagggt atattcctcc aatggcacag ccaggactgc 960
caccagtacc aggagcacca ggaatgcctc caggcatacc tccattaatg ccagggtgttc 1020
ctcctctgat gccaggaatg ccaccagtta tgccaggcat gccacctgga ttgcatcatc 1080
agagaaaata caccagtgca ttttgcggtg aaaacataat gatgccaatg ggtggaatga 1140
tgccacctgg accaggaata ccacctctga tgccctggaat gccaccagggt atgccccac 1200
ctgttccacg tcctggaatt cctccaatga ctcaagcaca ggctgtttca gcgccaggta 1260
ttcttaatag accacctgca ccaacagcaa ctgtacctgc cccacagcct ccagttacta 1320
agcctctttt cccagtgct ggacaggctc aggcagctgt ccaaggacct gttggtacag 1380
atttcaaacc cttaaatagt acccctgcaa caactacaga acccccaaag cctacatttc 1440
ctgcttatac acagtctaca gcttcaacaa ctagtacaac aaatagtact gcagctaaac 1500
cagcggcttc aataacaagt aagcctgcta cacttacaac aactagtgc accagtaagt 1560
tgatccatcc agatgaggat atatccctgg aagagagaag ggcacagtta cctaagtatc 1620
aacgtaatct tcctcggcca ggacaggccc ccateggtaa tccaccagtt ggaccaattg 1680
gaggtatgat gccaccacag ccaggcatcc cacagcaaca aggaatgaga cccccaatgc 1740
cacctcatgg tcagtatggt ggtcatcatc aaggcatgcc aggatacctt cctggtgcta 1800
tgcccccgta tgggcaggga ccgccaatgg tgccccctta ccagggtggg cctcctcgac 1860
ctccgatggg aatgagacct cctgtaatgt cgcaagggtg ccgttactga tcttacttca 1920
tccagtctaa taggtttgga gattaaacct tttctcaact tgtgctgttt atatagccaa 1980
gcttccgtca ataaggcttc attgtgactt taacaaacat tatcttccca cataccagga 2040
actattggac atttatttta catgggaaaa attatttgga ataataaagc aggaactttt 2100
cctgaagttg caatttatac tgtatggctt ctttttcatg tttcatctag gtttttagaa 2160
gtgaagtata gtaaattttg ttcgttaaat tgtgaaggcg ctggaattac atgaacatac 2220
caccctagta aaggcaagtt ctgtaagctt acattgctat ttgtaaagtt tgccttcaca 2280
gcatttcaga tgctgttgga cttcatgtcc ccaacctagc ttggtgaggg ctgtaactgt 2340
ttccaagtac ttgtacattg gaagtctgaa tgtgtaacaa tatttaatgt atttagagtt 2400
cctcatgttg cagggtttta gaaatctgac ccaccaaggt catgtgactt ttctgtactg 2460
ttaaacttca ttgtaataaa atgagagaaa aatttatgcc tttttattca taaccagct 2520
gtggaccact gcctgaaagg tttgtacaga tgcattgccac agtagatgtc cacataataa 2580
aattcatagt taccaatgca gtttanatat atcattggat tctgtctttg agttgtaggt 2640
tatttcttag ctgcatgttt taaactgaat ttgcatagag ttgtatgtta atgtttcagt 2700
taagagaaaa acttaagata catgagtcac tacataatgg gtatgaaatc tttataatca 2760
cccttccacc ctctatgggt tcagtacaca tcacgtgtca tagatactta aaatgtaaat 2820
gttaacactt ttccttcctg ctgagatgtt tagagcctag tgccagaccc attcatttcc 2880
ttttgattat ttttgagact cagtactagc ttcttgtgct gttaatgggt tattatata 2940
tattctaagt gtaatgctga gaatctaaat gtgtctctgt tgggatgggt aacagntga 2999

```

<210> 1994

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1265

<222> (332)

<223> n equals a,t,g, or c

<400> 1994

```

gcacaccgcg ctyagegect tcaactgccat ccccgctgtc ettgccgccc ccgccatggg 60
cctagagctg tttcttgacc tgggtgtcca gccagccgc gccgtctaca tcttcgcca 120
gaagaatggc atcccccttag agctgcgcac cgtggatttt gtcaaagggt ggcccagccc 180
gtttccccgc gtgtccacaa acccagtgc mccccagggc cccgcctgct ctgccctgag 240
cgtctcgccg ccgcacagcc cctcacctcc tcctgcagcg tctgccacca gagaatgctg 300
tggactgagt ggcttgaggg gatcacagnc tntctgaa 338

```

<210> 1995

<211> 2346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2344)

<223> n equals a,t,g, or c

<400> 1995

```

ggtgccgtct gcctcccagg tgccgcgttc gctcccggag ccgcggaaact cggcggccgc 60
catggcgctc aacatggacc gggagatgat cctggcggat tttcaggcat gtactggcat 120
tgaaaacatt gacgaagcta ttacattgct tgaacaaaat aattgggact tagtggcagc 180
tatcaatggt gtaataccac aggaaaaatgg cattctacaa agtgaatatg gaggtgagac 240
cataccagga cctgcattta atccagcaag tcatccagct tcagctccta cttcctcttc 300
ttcttcagcg tttcgacctg taatgccatc caggcagatt gtagaaaaggc aacctcggat 360
gctggacttc agggttgaat acagagacag aaatgttgat gtggtacttg aagacacctg 420
tactgttggg gagattaaac agattctaga aaatgaactt cagataacctg tgtccaaaat 480
gctgttaaaa ggctggaaga cgggagatgt ggaagacagt acggtcctaa aatctctaca 540
cttgccaaaa aacaacagtc tttatgtcct tacaccagat ttgccaccac cttcatcatc 600
tagtcatgct ggtgccctgc aggagtcatt aaatcaaaac ttcattgctga tcatcaccca 660
ccgagaagtc cagcgggagt acaacctgaa cttctcagga agcagtacta ttcaagagggt 720
aaagagaaat gtgtatgacc ttacaagtat ccccgttcgc caccaattat gggagggctg 780
gccaaattct gctacagacg actcaatgtg tcttgctgaa tcagggctct cttatccctg 840
ccatcgactt acagtgggaa gaagatcttc acctgcacag acccgggaac agtcggaaga 900
acaaatcacc gatgttcata tggttagtga tagcgatgga gatgactttg aagatgctac 960
agaatttggg gtggatgatg gagaagtatt tggcatggcg tcattctgcct tgagaaaatc 1020
tccaatgatg ccagaaaacg cagaaaatga aggagatgcc ttattacaat ttacagcaga 1080
gttttcttca agatatggtg attgccatcc tgtatttttt attgggtcat tagaagctgc 1140

```

1266

```

ttttcaagag gccttctatg tgaaagcccc agatagaaaag cttcttgcta tctacctcca 1200
ccatgatgaa agtgtgttaa ccaacgtgtt ctgctcacia atgctttgtg ctgaatccat 1260
tgtttcttat ctgagtcaaa attttataac ctgggcttgg gatctgacaa aggactccaa 1320
cagagcaaga tttctcacta tgtgcaatag acactttggc agtgttggg cacaaacct 1380
tcggactcaa aaaacggatc agtttccgct tttcctgatt attatgggaa agcgatcatc 1440
taatgaagtg ttgaatgtga tacaaggga cacaacagta gatgagttaa tgatgagact 1500
catggctgca atggagatct tcacagccca acaacaggaa gatataaagg acgaggatga 1560
acgtgaagcc agagaaaatg tgaagagaga gcaagatgag gcctatcgcc tttcacttga 1620
ggctgacaga gcaaagaggg aagctcacga gagagagatg gcagaacagt ttcgtttgga 1680
gcagattcgc aaagaacaag aagaggaacg tgaggccatc cggctgtcct tagagcaagc 1740
cctgcctcct gagccaaagg aagaaaatgc tgagcctgtg agcaaaactgc ggatccggac 1800
ccccagtggc gagttcttgg agcggcggtt cctggccagc aacaagctcc agattgtctt 1860
tgattttgta gttcccaaag gatttccatg ggatgagtac aagtactga gcacctttcc 1920
taggagagac gtaactcaac tggacccaaa taaatcatta ttggaggtaa agttgttccc 1980
tcaagaaacc cttttccttg aagcaaaaaga gtaaacacgg ccagcgggtg gaaccagcca 2040
ttccttgaca agccagcagc ctgctcagg agaagggctc ctgccaacc caccacacg 2100
ctcgtctcac tcaattcaat gtcacacttc tgctcttgc aaaattgctg gaaaaagtaa 2160
taataaatat agctacttaa gatttcccat ccatgagtat atattcccaa cccttattac 2220
agagaattac aactctggca cccttcccta ccctgcact tnaccttct tcaatgacga 2280
atgcattggt caagtgtgag tgatcactaa atagaaattt taccttttca gngcccatct 2340
tttncc 2346

```

<210> 1996

<211> 2021

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 1996

```

gcccacgcgt ncgcccacgc gtccggcaag aggctgggaa gccatcactt accttgact 60
gagaaagaag acaaaggcca gtatgcacag ctttctcca ctgctgctgc tgctgttctg 120
gggtgtggtg tctcacagct tcccagcgac tctagaaaca caagagcaag atgtggactt 180
agtccagaaa tacctggaaa aatactacaa cctgaagaat gatgggaggc aagttgaaaa 240
gcggagaaat agtggccccag tggttgaaaa attgaagcaa atgcaggaa tctttgggct 300
gaaagtgact gggaaaccag atgctgaaac cctgaagggtg atgaagcagc ccagatgtgg 360
agtgcctgat gtggctcagt ttgtctcac tgaggggaac cctcgctggg agcaaacaca 420
tctgacctac aggattgaaa attacacgac agatttgcca agagcagatg tggaccatgc 480
cattgagaaa gccttccaac tctggagtaa tgtcacacct ctgacattca ccaaggtctc 540
tgaggggtcaa gcagacatca tgatatcttt tgtcagggga gatcatcggg acaactctcc 600
ttttgatgga cctggaggaa atcttgctca tgcttttcaa ccaggcccag gtattggagg 660
ggatgctcat tttgatgaag atgaaagggtg gaccaacaat ttcagagagt acaacttaca 720
tcgtgttgcg gctcatgaac tcggccattc tcttgactc tccattcta ctgatatcgg 780
ggctttgatg taccctagct acaccttcag tggatgattt cagctagctc aggatgacat 840
tgatggcatc caagccatat atggacgttc ccaaaatect gtccagccca tcggcccaca 900
aaccceaaaa gcgtgtgaca gtaagctaac ctttgatgct ataactacga ttcggggaga 960
agtgatgttc tttaaagaca gattctacat gcgcacaaat cccttctacc cggaagttga 1020
gctcaatttc atttctgttt tctggccaca actgccaaat gggcttgaag ctgcttacga 1080

```

1267

```

atttgccgac agagatgaag tccgggtttt caaagggaat aagtactggg ctgttcaggg 1140
acagaatgtg ctacacggat accccaagga catctacagc tcctttggct tccctagaac 1200
tgtgaagcat atcgatgctg ctctttctga ggaaaacact ggaaaaacct acttctttgt 1260
tgctaacaaa tactggaggt atgatgaata taaacgatct atggatccag gttatcccaa 1320
aatgatagca catgactttc ctggaattgg ccacaaagtt gatgcagttt tcatgaaaga 1380
tggatttttc tatttctttc atggaacaag acaatacaaa tttgatccta aaacgaagag 1440
aattttgact ctccagaaag ctaatagctg gttcaactgc aggaaaaatt gaacattact 1500
aatttgaatg gaaaacacat ggtgtgagtc caaagraggt gttttcctga agaactgtct 1560
attttctcag tcatttttaa cctctagagt cactgataca cagaatataa tcttatttat 1620
acctcagttt gcatattttt ttactattta gaatgtagcc ctttttgtac tgatataatt 1680
tagttccaca aatggtgggt acaaaaagtc aagtttgtgg cttatggatt catataggcc 1740
agagttgcaa agatcttttc yagagtatgc aactctgacg ttgatcccag agagcagctt 1800
cagtgacaaa catatccttt caagacagaa agagacagga gacatgagtc tttgccggag 1860
gaaaagcagc tcaagaacac atgtgcagtc actggtgtca ccctggatag gcaagggata 1920
actcttctaa cacaaaataa gtgttttatg tttggaataa agtcaacctt gtttctactg 1980
ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2021

```

<210> 1997

<211> 1955

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<400> 1997

```

ccggcttccc aggcagaaga gtcganaaaa gctgtctttt tctcacgtca cccagcncag 60
gctcattaag ttcttcance tcttcccaat catttttenca atgagcaaat tgactaagag 120
aagcaaaggt ttcttggggg tattaaccag tagtgtggaa atactagttt tatgtggcca 180

```

1268

```

aggaaaagca aaggccttttc ttttcagttt gtgttatttg gaagacagaa aaacatcttg 240
tctacatcct ttggctgttt gtaggatcac gttgtcctta cgatactgaa actttacagc 300
tgctgtaaat tttttataaa tgaatttcaa aatgttataa tgggactgta gggtgttttt 360
ctacatcttc attatttgga cctaaaacca gtttttaata agaaagttta tctttactct 420
ttctgaaatt atgactccag aaaaagaaaa aaaaaataca agtcatggaa tcagcaatct 480
ggtaagaaat gctgccaaaga atgtggcagt agctgtcctg acagactcca actgtcttta 540
ctatctgaag aatcctaggc tccacatgag aggcagaaat ggatcagtct tattcttttc 600
tagaaatggg tatctgtagt ttggtagcaa aaaaaagaa aaaagaatcc ataattagca 660
gatttcttat taactatttg gatctaattg aaatggcttt attcttagga ttaagaaaga 720
tagatgtgga taccagcca ctcgttccat attgggtatct tttaaatcag ctctgcctct 780
taatcaagaa cctaaatatt ccctctttct aatctttgtt ccttctccct acaccctcat 840
cctctttcac tcttccttca taattcctct aagaaaaata tctttgcac agcagtaata 900
tcttttagaa tagcactatc agaatttagc agtaaaccaa catacaggct tcagatttac 960
ttctgagtc aaacaatttt gtgctatcca gggtagttaa ctctgggtta aacaagtaca 1020
gggtatagat tccctcttca ggtctacaca ggaattttta ccatagggaa aagtggggag 1080
agctcaaacg tagttaataa ggaaggtaat ttgtttttct tttacctaaa agaaaagaaa 1140
attccttctg tgactacagg tctctgagaa attatctttc aaaagagatt tcattgctca 1200
taagagtgtt gtggcctatt gataaaaaa attttgttca gtttcttgtc ttgaaaaaaa 1260
agtggcctta gctttttgca atacttgaat aaagtgtgta ctcgcaaaaag aatttctgta 1320
gcacagcatt agagactcat aacttttctg caagaaatac aaacttacat cttcctttta 1380
ctaccttaag aatactagt aataaaacat taattcaaag agcaaattat agaaactaca 1440
atgacattta atgcaaatg taggaattta catgtttaca aatcatcttc aactggttgt 1500
gcagcaattc aataaaatat ctttgtatta taaaaatgtg aagaaaaaat gtaaaactgat 1560
gtaaaggagg tactgtcatt ttaattaacc tatgtttaat agcttttcct tctggacttt 1620
gcaaagcctt cttggcaaac acattgcaaa gcattctctg ggaggttcag cctccttggtg 1680
tgtactgtac tgtgcagaca tgaaaaaata aaccctgtta ctgtgtgcgt gtaaatagcc 1740
tggtcatcag gccattttca gccaatagtc acatccagtg caattttgca ccgaacactt 1800
aagggtgtgg tttgtaagta cgatctgtaa aataactggg atgaattccc atgtatacct 1860
gtgtaaatag atttgtaaac tgaaatatac tttaagaaaag ataaaatctg taaataaaact 1920
gatttataaa ttaaaaaaaaa aaaaaaaaaa aaaaaa 1955

```

<210> 1998

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (264)

<223> n equals a,t,g, or c

<400> 1998

```

aaaaggaacg tggaatctgg ggaagaagag ctggcgtcca agctggacca ctacaaagcc 60
aaggccacgc ggcacatctt cctcatcagg cattcccagt accacgtgga tggctccctg 120
gagaaggacc gcaactctgac cccgctgggt cgggagcagg ctgaactcac tgggctccgc 180
tggcaagctt ggggttgaaa gttaataaaa atcgtccatt cgtctatgag cgcgccatag 240
agaccaccga tatcatcagc cggncacctg ccaggcgtct gcaaagtcag cacagatctg 300
ctgcgggaag gcgcccccat cgagccagac ccgcccgtgt ctattggaa gccggaagct 360
gtgcagtatt acgaagacgg agcccggatc gaggcgcct tccggaacta catccaccgc 420
gcagatgccg ggcaggagga ggacagttac gagatcttca tctgtcacgc caacgtcatc 480
cgctacatcg tgtgcagagc actgcagttt cctcctgaag gctggctccg gctctccctc 540

```

1269

```

aataatggca gcatcaccca cctggtgata cgacccaacg gccgagttgc gctcaggacc 600
ctcgggggaca cgggggttcat gcctcccgac aagatcactc gatcctgagg gctccggcct 660
ctccttccct ctgtcctccc tgcacaggcc gcacacactt aacgttttgt tccaaggag 720
accggcggaa agtagaaacc tgcaatgctg catctgggaa ctgacttggt accaggctga 780
gaaggggaga gttgggatca gacagcctga cttctctgca gggttttata cctgaccatg 840
aacccccagg atggcgtggg gttaaggtg aaagcgtctc acgcacaagt caggcctgtt 900
gtggggactt gaaagaggcc tgacccagac caccatgttc gcacccacag ctgacccgtg 960
ctgaggggtcc aggctccatt ggcaaagccg gtcaggcacg agggcgactg aggcacgtgg 1020
atgaggaggg caccaggtt ctgttcacaa ctcaacttcac ttcatacatc cttttaattt 1080
cttaaaaccc tcttgtccct taaatatattg tcaattaaag attttctggc tgggcaaaaa 1140
aaaaaaaaaa aaagtttt 1158

```

<210> 1999

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<400> 1999

```

tgtcacagac tacttcatca gtcgcttata tggagctggg accaaggttt ctgccaggcc 60
ttgggatcag ctcttggggg tcagagcagc cttcccatat cctctggcac tgctgaactt 120
ttgcagcagc tctttcctcc tctyttggat gcccttcgag agcccagggt acgacggatt 180
tnctgccagc ctgcagatcc tgcgcctgtc gccctagggt tctgtaccct tcagaccacc 240
ttgtcttgtt tcttgggcag agctcagcag tacttggcag catgggaccc agcttccttc 300
ctgtcctga tccaaaagga cttacctmct mtgwtgcatg asgcagaagc tttgtatagc 360
ctggcctcag aggaaagctt asctctggaa tggagcagca gctgggcctg gagatccaga 420
agctgactgc acagatccag ctctgcctg aagagtcact aagtgtcttt tctcaagaat 480
gtcataaaaca agccatgcaa ggtttcaagc tctacatgcc acggggtcgg tactggcggc 540
ttcgtctctg tcttggaaact cctcatccca gcttctcctt ccagagttcc aaggggaacc 600
tcccagtgtt cctagtgtgt atgtgtgttt agtgggtccg accgtactgg agcctgtgtt 660
gcaaggattg caagggttgc cacctcaagc ccaggccctt gcccttggtc aggctctgac 720
ggccatcgtg ggtgcctggc ttgaccacat tcttaccat gggattcggg tcaggtcagg 780
agtaaagggt gaagtggcag ggggtgaatg gaactgggaa aaggaaagggg ataatgggga 840
gaggcaggag ggtcaagtgg ccatactgta cctctgcctt cagcctgcag ggagcgtgtc 900
agctcaaaca agacttttga gtggtcaggg agttgtctga agaggagcag tggagcctgt 960
cccctgatct ccgccagacc ctgtcatgc tcagcatctt ccagcagctg gatggggcct 1020
gctgtgtctg ttgcagmagc ccytgcccaa gttcaagtcc acaggaggcc ccctgttgtt 1080
gtgttgtcan ggtccagac cacgaaatct cccagcagcg cctcaat 1127

```

<210> 2000

<211> 478

<212> DNA

1270

<213> Homo sapiens

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<400> 2000

```
aagaaggagc tcagccacta tctccccacc gagccagctc agcgggcagg gctgggaggg 60
agtgggacag attctgggag tscagegagg aggagtcccg gctggsctga gcgcaggag 120
ctgcttgmma gtgccagagc ccaggcccca gagccctgct ggagaggagg cagactgagg 180
cagcaggccc cgccagcagg cgaagaggng agatgtcaga ctgctacacg gagctggaga 240
aggcagtcac tgtcctgggt gaaaacttct acaaatatgt gtctaagtac agcctgggtca 300
agaacaagat cagcaagagc agcttccgcg agatgtctca gaaagagctg aaccacatgc 360
tgtcgcattg ctgaccctgc ttcttcccca ggacacaggg aaccggaagg ctgaggataa 420
gctcatccag aacctggatg ccaatcatga tgggcgcac agcttcgatg agtactgg 478
```

<210> 2001

<211> 1261

<212> DNA

<213> Homo sapiens

<400> 2001

```
cccacgcgtc cgcccacgcg tccggagctc tccccggtct gacagccact ccagaggcca 60
tgcttcgttt cttgccagat ttggctttca gcttcctgtt aattctggct ttggggccagg 120
cagtccaatt tcaagaatat gtctttctcc aatttctggg cttagataag gcgccttcac 180
cccagaagtt ccaacctgtg cttatatct tgaagaaaat tttccaggat cgcgaggcag 240
cagcgaccac tggggtctcc cgagacttat gctacgtaaa ggagctgggc gtccgcggga 300
atgtacttcg ctttctccca gaccaagggt tctttcttta cccaaagaaa atttcccaag 360
cttcctcctg cctgcagaag ctctctact ttaacctgtc tgccatcaaa gaaagggaac 420
agttgacatt ggcccagctg ggccctggact tggggcccaa ttcttactat aacctgggac 480
cagagctgga actggctctg ttcttggttc aggagcctca tgtgtggggc cagaccaccc 540
ctaagccagg taaaatgttt gtgttgcggt cagtcctcat gccacaagggt gctgttcaact 600
tcaacctgct ggatgtagct aaggattgga atgacaaccc ccggaaaaat ttcgggttat 660
tcctggagat actggtcaaa gaagatagag actcaggggg gaattttcag cctgaagaca 720
cctgtgccag actaagatgc tcccttcatg cttccctgct ggtggtgact ctcaaccctg 780
atcagtgcc aacctctcgg aaaaggagag cagccatccc tgtccccaag ctttcttgta 840
agaacctctg ccaccgtcac cagctattca ttaacttccg ggacctgggt tggcacaagt 900
ggatcattgc cccaaggggg ttcatggcaa attactgcca tggagagtgt ccttctcac 960
tgaccatctc tctcaacagc tccaattatg ctttcatgca agccctgatg catgccgttg 1020
accagagat ccccaggt gtgtgtatcc ccaccaagct gtctccatt tccatgctct 1080
accaggacaa taatgacaat gtcattctac gacattatga agacatggta gtcgatgaat 1140
gtgggtgtgg gtaggatgtc agaaatggga atagaaggag tgttcttagg gtaaatcttt 1200
taataaaaact acctatctgg tttatgacca cttagatcga aatgtcaata aaaaaaaaaa 1260
a 1261
```

<210> 2002

<211> 1531

<212> DNA

<213> Homo sapiens

1271

<220>
<221> misc feature
<222> (1524)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1530)
<223> n equals a,t,g, or c

<400> 2002
aaattgcaaa aggtaaatatt actagtgttt catacggaca ttttcagaca ccatttttct 60
atatgttttg tgcatttttg tttgctctgt atatagtata tataatggac aaatagtcct 120
aatttttcaa catctagtct ctagatgtta aagagggtgc cagtgtatga caaaggagta 180
aaattagcat attttgtaca ctttgtgttg aaattcgtag gaaaacttgt cttctgtaaa 240
gacttttgca taggaatttg tttgaccatc tctaagcatt acacgtgcct gtacttgtcc 300
actggattga aggcagagaa ggaaggagg agggaatgat tcaaggccaa aatggccaca 360
tttagaagat acctcagatg ataaccattg ttatgtgtgt gcaattttat ttaacagtgc 420
tgtgtatgtg gtggacaagt tatatgaaat atctagtctt tctagatatt tggaagtgtc 480
tgatgtattht aaaagtggta gtagaataac actttgtaaa tagcttttaa aaactgatgg 540
gaaatgctgt ttggaagtgg aattgttgaa ccacctggga ggtgggaggg aagaaattgc 600
aaatgggtgt ttgccattgt ttattagaaa atttcagctt aatccattgt gtatatgtta 660
catgcatttc atttaacttt gctatactgt atataattgta tatataacgg acaaattagt 720
cccgatttta taatatctag tctctagata ttaaagaggt tgccaatgta tgacagaagt 780
agagttagta aactaacaca ttttgtacac tttgttaaaa tttgtagaaa ggctgtcttc 840
tgaaaaggac ttttggaagt gagataacat cagctctaag tgacacgtgc ctatatccat 900
caggttgggt gtggagagga gttggaagga atgaagggtt ctagaccaga atgttcgtat 960
ttagaagaca ctatcagata taaccattgt tacatgtgtg tagtttattc aaccctactg 1020
tgtatatagc ggacaaactt aagtccttat ttgaaacatc tagtctttct agatgttttag 1080
aagtgcacaa agtatgttaa aagtagaggt agtaaataac acattttgta gctatccttt 1140
tgatatgaaa tattgtcttg gaaattgatc aattcctctga gcagtaccca ttttgatatt 1200
tgtgtctggt cagggggaag gaggagcaca aagtgcacaa ggctttctac cagtgtccag 1260
tgtgtttatg aggaggcaca ttgaccattg tcccttatgt ctgcattttc atttactgtg 1320
ctgtgtatat agtgtatata agcggacata ggagtcctaa tttacgtcta gtcgatgtta 1380
aaaaggttgc cagtatatga caaaagtaga attagtaaac tactacatgr gtacactttg 1440
tgtttaaatt cmtaggggaag acttctttaa aacaagtga attggtaaac ccccctaagc 1500
ttacagtggg tawagctggc cacnggggtn g 1531

<210> 2003
<211> 2333
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2018)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2044)

1272

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2332)

<223> n equals a,t,g, or c

<400> 2003

```

cacgcgtccg cattttcgta tccttgctga tttcaaacct tcccatgggt tagaagcata 60
acctgtaatg taatgcaagt ccctaactc cctgggttgc aacattaact tccttaagta 120
ataatcaatg aaagaaattc tatgcatggt tttgaaataa tgccttgaa agaggaaatca 180
ccattaggaa aggtgagtcg gggtcctttg tttaatgtga ctagtggctc atcatcacca 240
gtgacctggg tgggcctact ctccctccag aacctgcatt gcttcccaga cctccccact 300
gagatgcctc taagagccaa aggagtcaac acttgagcct aggggtgggc acaacaaaag 360
attctaattt accttgcttc atctaggtec agggcccaag tagcttgctg aaggaaactta 420
aaaagtagct gttattttatt gtattttata agctaaaaac atttattttt gttgaatcga 480
aacaattcca tgtagcaatc ttttttctgt tcacgggtgt tgtgatagaa ccttaaattc 540
cgcaagcatc agttttttga aaaaatggga attgaccgga tagttacagg caaagattat 600
aaatwgctac aacatcattt aactttttata aacatgcctt ctctctattg aagacatctg 660
atatttttgc tggaaagttg gatctatcct cagtaactct gccatggaat tcctgkttcc 720
tggttccaga aaaagaaaag attacatttc tgatcataaa gaatgtcttg catatgggga 780
aatttttcaa aatgaagggg ggtattattt atgtgggcat gggaaaactt ttgccatggc 840
tgtttgtcct agtgggcctc ttttgatgam attggatcag atatatgtag atgctgatat 900
atgggacaca tgttttaggt ttggtgcagt tgcacaaaac tgtgttagtt tatatgttac 960
tgtgttgccct ttattttatt tctccaaagt gtctctttat atttgtttta caatctgtga 1020
aagagtatac cataatacag aagtattttc atagtcttta cctctggatt gtccgtgcag 1080
tatagccacg ttgatgagat tacaccagtg cctttgatca tctttaagta tttgagccct 1140
gataaatatt ttggtaacat aatccaaatt agagacttag agctctgggt agcaatcatg 1200
tttaaagaga agcttcttaa agctctgtat gctgggagat tcatgattat taccaacgtt 1260
ttgatttcat gaaggtgttc tcaaatttaa agcacatttt cagtaagaac aaaaatattt 1320
aatgttttta tcttagactt aacttgatac atttgcatat tactatggaa gttattccac 1380
ttgtccctgt ttttctttta gatattttta aatcatagtt atactacagt ctttttttaa 1440
atgtatcctg atacattgta aaatattttt atttcattgt ggaaaataat gttggataag 1500
gagatatttt tcaactgttaa cttttagccc atgcattttc ataattttatt tttttcactt 1560
gctgctttat atgacatatg tgacatttga ttatttaaca cttgatgtga tctgcataaa 1620
cccaagttgc acaaccctcc tgctgaagat aaaattgagg ttaaagataa agattttattt 1680

```

1273

```

tcatatTTTgt acagtgatcg gcttcagtga tggTTTTTgt gggcatttat tgtgtgtgtg 1740
taagaaattt catatgtata tattaagtag gcctctgagt attgaataat tgttttatga 1800
TTTTgattta tatggTTTtac atTTTcattg tgtgggccat atttcgttta tactgtttat 1860
Ttctcttcaa accttaataa ttataccata aagtgttaatt tttatagcaa tgcaaagtgc 1920
taaggaaacta caaatatTTT ctacgttgta aattcaataa agcttgcttc ctttgGcaaa 1980
aaaaaaaaaa aaaaaaaaaa ctcgaggggg ggcccgnac ccaattcgcc ctatagttag 2040
tcgnattaca attcactggc cgtcgtTTTa caacgtcgtg actgggaaaa ccctggcgtt 2100
acccaactta atcgcccttc agcacatccc ctttctgccca gctggcgtaa tagcgaagag 2160
gccccgaccg atcgcccttc ccaacagttg cgcagcctga atggcgaatg gcaaattgta 2220
agcgTTaata ttttgTTaaa attcgcgtta aattTTTgct aaatcagctc atttttttaa 2280
accccccccc cnaaaaaaaaa tttttnaaag gggggggggg ccccccccc nng 2333

```

<210> 2004

<211> 2399

<212> DNA

<213> Homo sapiens

<400> 2004

```

ggcacgaggt agaaaccttg aaatTTTtaga aaacatcaat ttcattgccta atgttttgcc 60
tggTataaatt gttgagccca gagactgttt gtacttgaac agttcaggaa gaaaagaagt 120
agaaatgatt tttgttgctg ccacacttcc tactTTTTtg tatgagctta aacctatgtc 180
ttgaacattt atatcaccat tcttgccctt gaacacaaat gaatTTTTta tctttatttt 240
atgtacatt tctatacaat taaatTTata ttttcaattg tttgtttgct tgctcccat 300
gggagtcgtt aaagtgtaaa cagggcatag ggactgcaat taaccttgag aacaaaagaa 360
caatTTtatca ctttaccaaa caacaaaatt cactcttatt gtttaataatt cataataaag 420
gcagcaacta tcaattaaat tgagaacaga agtggcaaaa caggcacagt catcaaat 480
gcaatagcta actgctctat tctgaattat cagcagtagc tgagaactac ccaaagggtt 540
gctgatggcc acagtacaga acgatttagt aattcacggc tgcattgtct gtttgctcta 600
tttcccaaac tgagttaaata aatgagagct tgctaatacag gactattagg ggttgctagg 660
aaataaaaaa tttgctacta tgggctgtct ccaacctagc aaggagtttg acacaaaact 720
tctattacac acggTTaact agcacttaaa acaaatatat ctataagaat ttatcagtac 780
tggTctgatt cgtaggctac cccaaaaccc tgcttagcca atgaagtagc tggaaataga 840
ggaaaggtaa ctgttgccaa ctgattgaac aactTTTTtg ttctTTTTat ttgtaacagt 900
gtacccccaa aatctgaggt gtttgagggt tacctccctc tgccaaacac ctagacatt 960
actgaacaga cttttactac gaagtgttaa tggaaagtcag ggaccccaaa tggagggact 1020
ggctgaagcc atggcagaag aacataaatt gtgaagattt catggacatt tattagtctc 1080
ccaaattaat actTTtataa ttttttacct ctatctttac tgcaatctct gaacataaat 1140
tgtgaagatt tcatggacat ttatcacttc cctaatacaat actcttgtga tttcctatgc 1200
ctgtctttac tttaatctct taatcctgtc atcttcataa gctgaggatg tatgtcacca 1260
taggaccctg tgatgattgt gttaactgca caaatgkctc ataactcatg tgtgttttaa 1320
caatatgaaa tctgggcacc ttgaaaaaag aacaggataa cagctatgtt cagggaacaa 1380
gggagataac cattaggtct ggctgcctga ragccaggca gaacagaacc atatttctct 1440
tctttcaaaa gcaaatagga gaaatatcgc tgaattcttt ttctcagcaa agaacagcct 1500
ggagaaagag agtgtgttcc tagcaggagg tctctgaaat ggctgctctg ggaatgtctg 1560
tcttatacgg atgtagataa gggatgaaat aagccccagt ctcccgtagt gctcccaggc 1620
ttattaggat gaggacattc ccacctata aattttgggtc agaccagttg tctgctctca 1680
aacctgtct cctgataaga tgttatcaat gacgatgcgt gccagtgga acatgcaact 1740
tcattagcat ttttaatttc acccagctcc tgtgatctcg ccctgsctyc atttgccctg 1800
tgatatttta ttaccttatg aagcatgtga tctctgtgac ccgacccctt tctgtctttt 1860
ctggagggtg aggaccctg aacccttgc ctccacggca cgagctcgtg ccgttttttc 1920
ctgttttttg attttatgta aataaacaga gtcataaatt tgacactctc aaaatatccc 1980

```

1274

```

ccatcagatt catgtaagac ttttattttg gtgatacttc tccacaacca tcgcactaca 2040
acttacctta atccactcaa ctaacactta catatttggc tttagagatg tatatcaata 2100
tcttctgtgg tctggagata attcttatca tattagcacc ttagatgtaa ttgccagtat 2160
tcatgatatg ttaaaaaatt attaaatgtc tactaaattt gctacagctt agctacttca 2220
cgagactcta aaattcgggt ccttgcctata ctcttaaatt tcaaataata acatatatac 2280
ctcttccctt gataaaatct tacttccgat ctgtatcttt tcttgacact ttcttctctt 2340
tgacactttt ggttgactgg gtctgtatgt tgaaatgtct gccttgatag atactcgag 2399

```

<210> 2005

<211> 1916

<212> DNA

<213> Homo sapiens

<400> 2005

```

gtgtgagagg cctctctgga agttgtcccg ggtgttcgcc gctggagccc gggtcgagag 60
gacgagggtg cgctgcctgg agaatcctcc gctgccgtcg gctcccggag cccagccctt 120
tcctaaccce acccaacctt gccagtcctc agccgccagc gcctgtccct gtcacggacc 180
ccagcgttac catgcacctt gccgtcttcc tacccttacc cgacctcaga tgctcccttc 240
tgctcctggg aacttggggt tttactcctg taacaactga aataacaagt cttgatacac 300
agaatataga tgaaatttta aacaatgctg atgttgcttt agtaaatttt tatgtctgact 360
ggtgtcgttt cagtcagatg ttgcatccaa tttttgagga agcttccgat gtcattaagg 420
aagaatttcc aaatgaaaat caagtagtgt ttgccagagt tgatttgtat cagcactctg 480
acatagccca gagatacagg ataagcaaat acccaaccct caaattgttt cgtaatggga 540
tgatgatgaa gagagaatac aggggtcagc gatcagtgaa agcattggca gattacatca 600
ggcaacaaaa aagtgacccc attcaagaaa ttccgggactt agcagaaatc accactcttg 660
atcgcgacaa aagaaatata attggatatt ttgagcaaaa ggactcggac aactatagag 720
tttttgaacg agtagcgaat attttgcatt atgactgtgc ctttctttct gcatttgggg 780
atgtttcaaa accggaaaaga tatagtggcg acaacataat ctacaaacca ccagggcatt 840
ctgctccgga tatggtgtac ttgggagcta tgacaaattt tgatgtgact tacaattgga 900
ttcaagataa atgtgttcct cttgtccgag aaataacatt tgaaaatgga gaggaattga 960
cagaagaagg actgcctttt ctcatactct ttcacatgaa agaagatata gaaagttag 1020
aaatattcca gaatgaagta gctcggcaat taataagtga aaaaggatca ataaactttt 1080
tacatgccga ttgtgacaaa tttagacatc ctcttctgca catacagaaa actccagcag 1140
attgtcctgt aatcgctatt gacagcttta ggcatatgta tgtgtttgga gacttcaaa 1200
atgtattaat tcctggaaaa ctcaagcaat tcgtatttga cttacattct ggaaaactgc 1260
acagagaatt ccatcatgga cctgacccaa ctgatacagc cccaggagag caagcccaag 1320
atgtagcaag cagtcacact gagagctcct tccagaaact agcaccagc gaatatagg 1380
atactctatt gagggatcga gatgagcttt aaaaacttga aaaacagttt gtaagccttt 1440
caacagcagc atcaacctac gtggtggaaa tagtaaacct atattttcat aattctatgt 1500
gtatttttat tttgaataaa cagaaagaaa ttttgggttt ttaatttttt tctccccgac 1560
tcaaaatgca ttgtcattta atatagtagc ctcttaaaaa aaaaaaaaaa cctgctagga 1620
tttaaaaaata aaaatcagag gcctatctcc actttaaaatc tgtcctgtaa aagttttata 1680
aatcaaatga aagggtgacat tgccagaaac ttaccattaa cttgcactac tagggtaggg 1740
aggacttagg gatgtttcct gtgtcgtatg tgcttttctt tctttcata gatcaattct 1800
gttggatatt tcagtatctc atttctcaaa gctaaagaga tatacattct ggataacttg 1860
gaggggaata aattaaagt ttcacactga aaaaaaaaaa aaaaaaaaaa ctcgta 1916

```

<210> 2006

<211> 1073

<212> DNA

<213> Homo sapiens

1275

<400> 2006

```

cttattggat cccccgggg cttgcagaaa ttccggcacga ractcatct caggccacac 60
aggattccat tcatcgaaca ttctgagac aacggaattc tggatgga gcacaggtca 120
gtggtggcca ggggccaggt gtggtatga aggggtggt gccttgtag acccttgagg 180
cccgtagaag ctgttggcat gtcaacagtt agctgcttct cattgctgag tggcgattgg 240
tctgtcatg gtttattcag ccattgtgtg gatggcaact tgtcttctaa gccacttgcc 300
ttctgattgc tggactgact ctctcgccct ctcttggtgc agccctcggg aggtcagtc 360
acactctccg agagcacagc catcatctcc aatggcatca caggcctggg cacatgagat 420
gctgccctct acctggcaga atgggccatc gagaacccgg cagccttctc tcataggtga 480
cctcggggcg caccggcagga caccgaggca ggctcaccct ggtgcagtta cagacatggg 540
cccccttct cccgccagga ctgtcctaga gcttggcagt ggcgccagcc tcacaggcct 600
ggccatctgc aagatgtgcc gctccaggc atacatcttc agcgactgtc acagccaggt 660
cctcgagaag ctctgagggg atgtccttct caatggcctc tcattagagg cagacatctc 720
tgccaactta gacagcccca ggggtgacagt ggcccagctg gactgggacg tcgcgacggt 780
ccatcagctt tctgccatcc agccagatgt tgtcattgca gcaggcaatg cccagcccca 840
ggactctgtg caggcgggtg ccttgacagt ctaccagct ctgggctctg ggaaaaggga 900
acaatggacg ctgtcgggca tggacatgat ggggcttcca gaagagttac tctgggcctc 960
cagggtgaca tcaaaggaca ggggtgcctc ttaagggtgac cttccagcca cagccctctt 1020
gttggagaca ggcatactcc cattacagtc atcaccacat ggctctgtcc cag 1073

```

<210> 2007

<211> 3711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 2007

```

ttcgagggtcg gccgcgtggc tgggaagacat ggccactcca gtcgggtgttg agcacggcga 60
gcagtctcag gcccttagtg atgatgggtgc agtcagcctc agtttccaaa gccggaaaag 120
gatcctctag tagccacggg gtgncagctg ctctgaacca ggacctggac ccggacccaa 180
agtgccatgt ctttaatgtt agctcccagc gatgccagat gggatcagca cagccctgcc 240
tctgctgcta attgttcctc taaagtaatc gccatgcgtt ctttgggctt catctttaa 300
ggaatgaagc aactgagatt attctggaaa accttttggc agttagtga attagagtac 360
aactaagaac attttcagac ctccactgtg gatgacctgg gtataatctc acaaatcgat 420
gggactgcaa ggattgtaaa ctgaaatgaa catgattata ctctgttgga agagcctaag 480
aggaaaactga tgccatgagt ttcagagagt aatgcttaac cccagttaca caggatgccg 540
tcttgtgttt cctcttgttt agttaccacac tacagtgatt ttgtgatctg ctaatgggtt 600
gccaccaca accattgctt tagcactttt acttcaaadc aatgaaggat tgataaaaagt 660
tctcctggtg tctccgcaga gtgccttcca ggaacagatc tttgcataga atatcagttg 720
tttccctttt tgtttcaaat agtggtcaga aaataccagc tgttgactca ccaaggcaat 780
cagcttcctt tttccctttt tttgtttttt tttaacattt tatatttttg ctttatttta 840
ttttatttta ttttttgaga cggagttcca ctctgtcgcc aggtcggagt gaagtgttac 900
aatcttggct cactgcaacc tccacctccc gggttcaagc aattctcctg gctcagcctc 960
ctgagtgtg ggactacagg cgcgtacctt cttagtaga gactgggttt caccatgttt 1020
gccaggatgg tctctatctc ctgacctgt gatctgcctg cctcagcttc ccaaagtgtc 1080
gagatgacag gtgtgagcca tcagaccagc catttttttt tttaatttaa atttaaattt 1140

```

1276

```

ttttcatttt tttgagaggt tttttttggt ttgttttggt gttgttggtg ttgttggtgt 1200
ttttgagaca gtcttgctct gtcacccagg ctgggagtg agtggcatga tctctgcaac 1260
ctctacctcc caggttcaag caattcttgt gcctcagcyt cccaagtaac tgggactaca 1320
ggtgcacgct accacacctg gctgattttt tttgttttag tagagacagg gtttcaacca 1380
tgttgcccag gttggtctca aactcctgag ctcaggcaat ccacccgcct tggcctccca 1440
aagtgtctagg attacaggtr tgagccacca caccagcta ttttttcttt cgttttttta 1500
ttttaaggtt gggggggggtc tcaatttggt aycctggctg rtctcgaact cccggactta 1560
agcgatcctc tggctccaag cccactacca gtctcagggt tctttactaa aagatcacta 1620
cctttttttc tcttatctgc tgccatgtga gatgtggctt tcaccttcct ccatgattgt 1680
gaggccttcc cagccacgtr gaactgtaag tccaataaac ctcttttgta aattaaaaaa 1740
aaaaaatcac tatttaagat actaggatgg attgtgactg ttgaggagta cttacatatc 1800
ctacatttga ctacattatt tccaaaccaa gtattccatc caaaggaaca tactgctatc 1860
atagagacca aggagggact gtttaagggt gccaaaggta agcgagctga gaggctttgt 1920
cctcgtgcc a gtaactctga aatctctctt aattcctgct gtccaggcag cagaatgcc a 1980
tggtttcccc aagtaggtag ctgcttttagc agttaaaagcc caaatgtctg ttctgttgat 2040
cagaggctctc tgaatttctg aagtgggtgt tegtctctgg tgactgagtt aatcctttac 2100
aatccctctt gtaaagtgtg ctaatagaaa gaatccacct ttcaaagctg cagaaccaga 2160
ccgtgcccta aattgaccaa cgtarctgat gtgcctcagg aagtctcttg ccagctgtcc 2220
ctgtgaagac cccctcctcc cccccagctg ctgccttgca cactgaagca tctcagactg 2280
tgcaaagccg tgtagtcac aagacagtaa atcccagggc ttgggttaagt gctgtgtgat 2340
aacttgtttg gatgagactt aacttaaaac cacttacaat aaacttggga aactaccgtc 2400
agctgagttc aaatttactg acggcatgat atgaggatga aggtttatta cctggtgaca 2460
tcatcctggt ggtgacatca tctgttgggt gacaagggtg tgatacatct ctaatgggac 2520
ttccctcagt ggcaggcagg ctgccaagca actaaccctc atcaagtgcc agaccctccc 2580
agtgttctga gagtcacatc catgctaaac agcctgcgtt ttatatgatt tctctacca 2640
gccaaaaaaa aaaaatggtc catcatgtac gcagttatct agtcttaagt tatattctgg 2700
cttttttctc ccactttatt atggagcaga agtaagccta tcatgttctt agaaaggctc 2760
ttaagagggt tcttgaggct cttgaatcac ttttagcatc ggggtaggat gtgccaccag 2820
gaggatttgg gctggagcgt gtgtgtttgc ctttgacctg gactgctgtc tgatcttgct 2880
gaacactcca ccgacatttc ctaaagttgc tcagtgccaa tccagcaaag cagtccattt 2940
tcccttggcc aagattgaga tgtattgttt tagatacaga agagttcttg gatgagccaa 3000
ggacaagctg ggggtgtccta tattgaacag acctcgatga aaatcttgaa ttcacccagg 3060
tgccctctgt tggcaaggga aggtgaagat tgaaaagtta aaaaagcttt tggccacttg 3120
agaggatcag ggcgcgaact cttgaagaag caaagggtc agtgcatagg ggtcagcgt 3180
ggtacagctg aaggatgccg gccttgtgca ggtccctcca cagggcagct tccagggaca 3240
gatcgtgggt tgcataaaat atcaatggct tcatttttctg ttcgaaatag tggtcggaaa 3300
atttccagta gttgcttctg atgaatccat aggcactgac ctggtcacag gtatgcmaag 3360
ctgtcagcag catgagagcc ccggtactag gcatatatag gtctccaaaa tgtgtgttaa 3420
tcaactttga tttcaagaac ctttctgtca ggtagctgat gaagtccgga tgtagcagct 3480
tgaatttact ggcagagggt tctgggtccaa aataggcgtg cggcctagga cccatgatag 3540
aagtggacag agcgccaga gccgtcgat tgcaaggggg agatggaggg gagggtcagg 3600
gcgcgggagt agcgcgggta ccctgagcgg taggagcggg gctgtccctt ttatctaggc 3660
cctcagggac aggcacgccc agaatggcgg atctcagcat cacatagtcg c 3711

```

<210> 2008

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1277

<222> (434)

<223> n equals a,t,g, or c

<400> 2008

```

agatttactg tgcgctgctg ggctgcatgg acgactacac cacggacagc agaggggacg 60
tgggcacctg ggtccgcaag gccgccatga ccagtctgat ggatctgaca cttctgctgg 120
ctcggagcca gcctgagctg atcgaggccc atacctgtga gcgcatcatg tgctgtgtgg 180
cccagcaggc cagtgagaag attgaccgtt tccgtgctca cgccgccagc gtgttccctga 240
cgctcctgca ctttgacagc cctcccatcc cccacgtgcc ccaccgagga gaactggaaa 300
agctgtttcc caggtccgat gtggcctccg tgaactggag tgcamcttcc caggcyttcc 360
cacgcataac castccttgg gtkgccacyt acggtwacam gtccctgggtgg gggtagtcgt 420
gtccttgggc gttnaggatg acgatccgga ttcaccaagc ttttataa 468

```

<210> 2009

<211> 839

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<400> 2009

```

gagatggggn tccaaaagcc ccacagcact gccaatatcc ctggagctca ctgccggagt 60
tctagcattt gttttcaaag actggatcaa agaccagctg tatttcttta taancaacaa 120
catcagagca tatcgggatg acattgattt gcaaaacctc atagacttca cccaggaata 180
ttggcagtg cgtggggcct ttggagctga tgattggaac ctaaatattt acttcaattg 240
cacagattcc aatgcaagtc gagagcgatg tggcgcttcca ttctcctgct gactaaaga 300
tcccgcagaa gatgtcatca aactgagtg tggctatgga tgccaggcaa aaaccagaag 360
ttgaccagca gattgtaayc tacacgaaag gcygtgtgcc ccagtttgag aagtggttgc 420
aggacaattt aaccatcggt gctgggtattt tcataggcat gcattgctgc agatatttgg 480
gatatgccct ggcccagaat tkggtttagc atatcgaaag tgtcagggcg agctggtaga 540
ccccctgcaa ccgstgctgc aagacactgg acagaccagc ctttcgggac cctcccgcgt 600
gccgaactga tcttcgagct gcatggacct aatcacagat gcagcctgca gtctcgccct 660
atggagctgc cattagggga gtgtaaaact gggaaatgct gctcactgac agaattaaaa 720
aaaaaaataa ccagtatgaa agtcgttgcg ccgtgaatct ctactgtagc catgaattta 780
tggacagtta gatgcttacc aaaaaaaaaa aaaaaaaact cgagggggggg cccgtaccc 839

```

<210> 2010

<211> 813

<212> DNA

<213> Homo sapiens

<400> 2010

```

tcgacccacg cgtccggctc cccgagccct gccaaccatg gtgaacttgg gtctgtcccg 60

```

1278

```

ggtggacgac gccgtggctg ccaagcaccg gggactcggg gagtatgccg catgccagtc 120
acacgccttc atgaaggggc ttttcacctt cgtcacaggc accggcatgg ccttttgctt 180
gcagatgttc attcagagga agtttccata ccctttgcag tggagcctcc tagtggccgt 240
ggttgacaggc tctgtggtca gctacggggg gacgagagtg gagtcggaga aatgcaacaa 300
cctctggctc ttcctggaga ccgggcagct ccccaaagac aggagcacag atcagagaag 360
ctaggagagc tccagcaggg gcacagagga ttgggggcag gaggagtctg gaacacagcc 420
ttcatgcccc ctgaccccag gccgaccctc cccacaccct agggtacccc agtcgtatcc 480
tctgtccgca tgtgtggcca ggcctgacaa acacctgcag atggctgctg ccccaacctg 540
ggacctgccc aggaggttgg agcagaaaag gctctccctg ggggtggtgt tctcctctag 600
ggtattggga tgcattgttct gactgccag cagagagggt gtgtctgggg gccaccacct 660
atgggacacg gggtcgaagg ggcctgtaca ctctgtcatt tcctttctag cccctgcatt 720
tccaacaagt ccaagggtgac agctggtgct aggggcgtgg gggttaataaa tggcttatcc 780
ttctctccaa aaaaaaaaaa aaaaaawaaa aaa 813

```

<210> 2011

<211> 994

<212> DNA

<213> Homo sapiens

<400> 2011

```

aaaggcgaag gccccattt attgttgcct ttttacgccc cagcttacct taggctcggg 60
gttgttttga tttgaacgaa caattcccca gaaacgtatg ccatattcga ttaatcgatc 120
gtatagggat ttgccctgag ccaagatcgc caaggaggag atcttcgggc cagtgtgca 180
gatcctgaag ttcaagacca tagaggagg tgttgggaga gccaacaatt ccacgtacgg 240
gctggccgca gctgtcttca caaaggattt ggacaaggcc aattacctgt cccaggccct 300
ccaggcgggc actgtgtggg tcaactgcta tgatgtgttt ggagcccagt caccctttgg 360
tggttacaag atgtcgggga gtggccggga gttgggcgag tacgggctgc aggcatacac 420
tgaagtgaag actgtcacag tcaaagtgcc tcagaagaac tcataagaat catgcaagct 480
tcctccctca gccattgatg gaaagttagc caagatcagc aacaaaacca agaaaaatga 540
tccttgctg ctgaatatct gaaaagagaa atttttccta caaaatctct tgggtcaaga 600
aagttctaga atttgaattg ataaacatgg tgggttggct gagggttaaga gtatatgagg 660
aaccttttaa acgacaacaa tactgctagc tttcaggatg atttttaaaa aatagattca 720
aatgtgttat cctctctctg aaacgcttcc tataactcga gtttataggg gaagaaaaag 780
ctattgttta caattatatt accattaagg caactgctac accctgcttt gtattctggg 840
ctaagattca ttaaaaaacta gctgctctta aaaaaaaaaa aaaagggcgg ccgctcgcga 900
tctagaacta gtccggacgc gtgggtcgac ccgrgaattc cggaccggta cctgcaggcg 960
taccttctat agtgagtcgt attagagctt gccg 994

```

<210> 2012

<211> 1770

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (674)

1279

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (694)

<223> n equals a,t,g, or c

<400> 2012

```
gnatgaacac caactggcca gcctcgggtgc aggtcagcgt caatgccacg ccgctcacca 60
tcgagcgtgg cgacaacaag acctcgcaca agccactcta cctgaagcat gtgtgccagc 120
caggccgcaa caccatccag atcacccgtca ccgcctgctg ctgctcccac ctcttcgtgc 180
tgcagctagt gcaccgcccc tccgtccgct cgggtgctgca gggcctcctc aaaaagcgcc 240
tcctgcctgc tgagcactgc atcaccaaga taaagcggaa cttcagcagc ggcaccatcc 300
ctggcaccccc tgggccccaa ggagaggacg ggggtggagca gacagctatc aaggtgtccc 360
tgaagtggcc catcaccttc cgcaggatcc agctccctgc ccgaggtcat gactgtcgcc 420
acatacagtg ctttgacctg gagtgcgtacc tgcagctcaa ctgtgagcgg gggacttgga 480
gggtgtcctgt gtgcaacaag acagctttgc tggagggcct ggaggtggac cagtacatgc 540
tggggcatcct gatttacatt cagaactctg actatgagga gatcaccatc gacccacagt 600
gcagctggaa gccagtggcc gtgaagcctg acatgcacat caaggaggag ccggatgggc 660
cagcactkaa gcgntkccgm accgtgagcc ccgnccacgt gctyatgccc agcgtgatgg 720
agatgatcgc cgccctgggy cccggcgctg ccccttttgc cccctgcag ccccccctcag 780
tccctccccc agcgtcccg ggtccttgg gccaaagcgag cttaggacct acgggtgaac 840
tggccttcag tcctgccaca ggcgtgatgg gsmccccag catgtctgga gccggggagg 900
ccccagaacc agctctggac ctgctcccg aactgaccaa ccctgatgag ctactgtcct 960
acttggggccc acccgacct cctacgaaca acaatgacga cctgctttct ctgtttgaga 1020
acaactgatc ctgtgtttac cccaagcccg gcggggacac gctcacagat gtcaccacag 1080
ccctgccctt catgcccagc cccatgggac acccggtggt ctttcccaaa cctcccccaa 1140
aacacacctg gagccagagc cttctgccgc cagccctgcc cctgaattgg aagcagccct 1200
gtgctcgatg ggaggggctc ccaggccggc agcccttgcc acctccctct gccaaagcctg 1260
ctgctgcaga acggtttttg ctgaggtgcc cctgcccagc cctgtccagc cttgtccaca 1320
cacacatctc acgcccctgg tctcacagcc tcacaccttg tccttccacc cctgcctgcc 1380
cccacccagc ctgcttcttg tccagcattg atccttctgt ttcaacaact cctccactgg 1440
gcagagctgg gcatctggca gggctggctc tgtcccttg gcctttggct ccagtggccc 1500
ctgtgcccag cagtccagct cttggaacct cgctgaatgg cagcctcttg ggggcctgga 1560
gctctggcag cccagccgtg tgtggtgtca ggttcctctc cccaccccag cttcaagcag 1620
aggcctcggg gtggggggagc tacaaagcac aacaatgtac atagtgtaga aacaytaaca 1680
gctgggagag gggagccagc tgtccagcca gcatgttctt gttgtrymtc cygtctgtgc 1740
cgatctctat taaaggactc cctcttgaaa 1770
```

<210> 2013

<211> 707

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1280

<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (641)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (697)
<223> n equals a,t,g, or c

<400> 2013
gctgtgctct gcccttcagn cccctgccag naccacccc agccccctgg tgccctgctgc 60
cccagctgtg acagctgcac ctaccacagc caagtgtatg ccaatgggca gaacttcacg 120
gatgcagaca gcccttgcca tgccctgccac tgtcaggatg gaactgtgac atgtctccttg 180
gttgactgcc ctyccacgac ctgtgccagg cccagagtg gaccaggcca gtgttgcccc 240
aggtgcccag actgcatcct ggaggaagag gtgtttgtgg acggcgagag cttctccac 300
ccccgagacc cctgccagga gtgccgatgc cagggaaggcc atgcccactg ccagcctcgc 360
ccctgccccca gggccccctg tgcccacccg ctgcctggga cctgctgccc gaacgactgc 420
agcggmtgtg ccttttggcg gaaagagtac cccagcggag cggacttncc ccacccctct 480
gacccctgcc gtctgtgtcg ctgtctgagc ggcaacgtgc agtgccctggc ccgccgctgc 540
gtgccgctgc cttgtccaga gcctgtcctg ctgccgggag agtgctgccc ggaatggccc 600
aagccgcccc gcccccggcc ggctgccac gggcccgggc ncgggccaac ggccccggcca 660
ccaaggaagt accttttttc cccggncccg ggcgatnccc ttggccg 707

<210> 2014
<211> 2440
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

1281

<220>
 <221> misc feature
 <222> (93)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2325)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2326)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2421)
 <223> n equals a,t,g, or c

<400> 2014
 gattctgtgg aataccggta ttaccgcntt tgagtaactg ataccgctng cgcagccgaa 60
 cgccgagcgc agcgagcagt agcgaggaag cgnaagagcg cccaatacgc aaaccgcctc 120
 tccccgcgcg ttggccgatt cattaatgca gtggcacgac aggtttcccg actggaaagc 180
 gggcagtgag cgcaacgcaa ttaatgtgag ttagctcact cattaggcac cccaggcttt 240
 acactttatg cttccggctc gtatgttgtg tggaaattgtg agcggataac aatttcacac 300
 aggaaacagc tatgaccatg attacgcca gctcgaaatt aaccctcact aaagggaaca 360
 aaagctggag ctccaccgcg gtggcggccg ctctagaact agtggatccc ccgggctgca 420
 ggaattcggg wcgagctaag ctgcagtgat gttgcctata tttaaatttt ctcaaattggc 480
 caagctctga tggctacttt tatttgagca atagttgaga cttataattg cctataaata 540
 aacaaacaaa tgaactatgt gttttttttt ctcaaacat ctggcctata ttgtctgtca 600
 ggaagccatg gctccaatgt aaagtacata gttctttacat acttcaactg cagctgggtcc 660
 ctgacctcac cagggtttcag agatgttctt aaaggaagcc agctgtggca ggtcacagat 720
 tcatgggaaa tggaaagaac caaggaatat agctcttgcc tcacctttct acccactgca 780
 gatatatgtt aagccagagt aatggaagaa cttaacttac tagcctctca ggctgctcct 840
 atccctacct cccagtgtac agccccctcc catctcttta gtcccccttc cctcacttcc 900
 cctttttataa tgtcacacaa atcagggaca gtaggatcac attataacct actttgtcat 960
 agggattcga tttttcttat atcaaatcat gtttctctgaa acccagctgg ggcataatgca 1020
 ctcaatgtct aatacatact tattaatgta ccggatattg gccttgcccc tggatatcag 1080
 caatatatta taaaaggttc cagtagatga gacgattgag tctgaatata attgcagtaa 1140
 attgtgccaa taaagatatt gtactgttac ggtcttagag ttaaagccgc ttgaatgcag 1200
 catgcacatt catgtaaaca gacaatcagg gtaggcctag aataaccaca aaaatttctat 1260
 tggccttact gcagccacct atatgtagaa caatggagga gatagtttgt ggtccattat 1320
 tgtaccctgt ttcattccatt agcatcagaa tctctctttc aggtcattta ttaaataatga 1380
 ttgaaatgtt taaaagttcc tgaacatgat tcatgatgat taaaatatca tacaactgat 1440
 aaaagacttt aagaacttta tatatttctt gttgcctcaa aatgtaacag aaattattct 1500
 tagagctttg atttttagcta tcctaattac tgcaataaaa tatttgttct tatagtttta 1560
 aatcaaaaag aaaagtcttg ttataaaaacc ttaagcttga aatcatatta ataaaaatata 1620
 ttgtacatag tggaaaattt tcagtagcta attttaaatt tcagaaaatg ctattaaaga 1680
 attttgattc aagtatttaa actgttttagt tatgcatgct tcttattaac cgaaaatgat 1740

1282

```

aataccattt agtttagtga tcagtatgag aagcaatacc taatcctatg ttgctattgt 1800
atTTTTtCct agttgggtgtg cctgctcaga aaaacatata ctgtatgtgt atacatacct 1860
gtgtatatat aaaaggtcaa tttatatatt tttctatagg aaaatggagt aacaagttcc 1920
ctatctccca tatTTtatttg tccatagtaa aatggccaca ttgatgataa tttctagaac 1980
tagtttctga gattgtcagc cctttgtcta aaataatggc agtattaatg attgacttct 2040
gtcactgcc a tagttacctg gattgtcagc cttggtagcc tttgtctaaa gtcctaaaga 2100
gttccaaaaa aaatgtgttg aaatttaatt gctaaatagt ggttgggtgat tctttacagt 2160
aggaattgta ataattttct tgcaaaataag ttatttactg ctattgatat tgaataattt 2220
gtcttttatt cagatatatt tcaaaaagca tgaatatatg attattcata aattgtatac 2280
tttaccagta agttttcaga ggaaataaag actttttaat ccttnnaaaa aaaaaaaaaa 2340
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2400
aaaaaaaaaa aaaaaaaccc ngggggggcc ccsgccccc 2440

```

<210> 2015

<211> 3302

<212> DNA

<213> Homo sapiens

<400> 2015

```

gcggcacgag cgcccacsyg tcctgcrgea ctggatgctt tgtgagttgg ggattgttgc 60
gtcccatatc tggaccacaga agggacttcc ctgctcggct ggctctcggt ttctctgctt 120
tcctccggag aaataacagc gtcttccgcg ccgcgcgatgg agcctcccgg ccgccgcgag 180
tgtccctttc ctctctggcg ctttctctggg ttgcttcttg cggccatggg gttgctgctg 240
tactccttct ccgatgcctg tgaggagcca ccaacatttg aagctatgga gctcattggg 300
aaacccaaac cctactatga gattggtgaa cgagtagatt ataagtgtaa aaaaggatac 360
ttctatatac ctctctcttg caccataact atttgtgatc ggaatcatac atggctacct 420
gtctcagatg acgcctgtta tagagaaaca tgtccatata tacgggatcc tttaaatggc 480
caagcagtc ctgcaaattg gacttacgag tttggttatc agatgcactt tatttgtaat 540
gagggttatt acttaattgg tgaagaaatt ctatatttg aacttaaagg atcagtagca 600
atTTggagcg gtaagcccc aatatgtgaa aaggTTTTgt gtacaccacc tccaaaaata 660
aaaaatggaa aacacacctt tagtgaagta gaagtatttg agtatcttga tgcagtaact 720
tatagttgtg atcctgcacc tggaccagat ccattttcac ttattggaga gagcacgatt 780
tattgtgggtg acaattcagt gtggagtcgt gctgctccag agtgtaaagt ggtcaaagt 840
cgatttccag tagtcgaaaa tggaaaacag atatcaggat ttggaaaaaa attttactac 900
aaagcaacag ttatgtttga atgcgataag ggtttttacc tcgatggcag cgacacaatt 960
gtctgtgaca gtaacagtac ttgggatccc ccagttccaa agtgtcttaa agtgtcgact 1020
tcttccacta caaaatctcc agcgtccagt gcctcagggt ctaggcctac ttacaagcct 1080
ccagtctcaa attatccagg atatcctaaa cctgaggaag gaatacttga cagtttggat 1140
gtttgggtca ttgctgtgat tgttattgce atagttgttg gatttgcagt aatttgtgtt 1200
gtcccgtaca gatatttca aaggaggaag aagaaaggga aagcagatgg tggagctgaa 1260
tatgccactt accagactaa atcaaccact ccagcagagc agagaggctg aatagattcc 1320
acaacctggt ttgccagttc atcttttgac tctattaaaa tcttcaatag ttgttattct 1380
gtagtttcac tctcatgagt gcaactgtgg cttagcta at ttgcaatgt ggcttgaatg 1440
taggtagcat cttttgatgc ttctttgaaa cttgtatgaa tttgggtatg aacagattgc 1500
ctgctttccc ttaaataaca cttagattta ttggaccagt cagcacagca tgccctgggtg 1560
tattaaagca gggatatgct gtattttata aaattggcaa aattagagaa atatagttca 1620
caatgaaatt atattttctt tgtaaagaaa gtggcttgaa atcttttttg ttcaaagatt 1680
aatgccaact cttaagatta ttctttcacc aactatagaa tgtattttat atatcgttca 1740
ttgtaaaaag cccttaaaaa tatgtgtata ctactttggc tcttgtgcat aaaaacaaga 1800
acactgaaaa ttgggaatat gcacaaactt ggcttcttta accaagaata ttattggaaa 1860
attctctaaa agttaatagg gtaaattctc tattttttgt aatgtgttcg gtgatttcag 1920

```

1283

```

aaagctagaa agtgtatgtg tggcatttgt tttcactttt taaaacatcc ctaactgac 1980
gaatatatca gtaatttcag aatcagatgc atcctttcat aagaagtgag aggactctga 2040
cagccataac aggagtgcc cttcatggtg cgaagtgaac actgtagtct tgttgttttc 2100
ccaaagagaa ctccgtatgt tctcttaggt tgagtaaccc actctgaatt ctgggtacat 2160
gtgtttttct ctccctcctt aaataaagag aggggttaaa catgccctct aaaagtaggt 2220
ggttttgaag agaataaatt catcagataa cctcaagtca catgagaatc ttagtccatt 2280
tacattgcct tggctagtaa aagccatcta tgtatatgtc ttacctcacc tcctaaaagg 2340
cagagtacaa agtaagccat gtatctcagg aaggtaactt cattttgtct atttgctgtt 2400
gattgtacca agggatggaa gaagtaaata tagctcagggt agcactttat actcaggcag 2460
atctcagccc tctactgagt cccttagcca agcagtttct ttcaaagaag ccagcaggcg 2520
aaaagcaggg actgccactg catttcatat cacactgtta aaagtttgtt tttgaaattt 2580
tatgtttagt tgcacaaaatt gggccaaaga aacattgcct tgaggaagat atgattggaa 2640
aatcaagagt gtagaagaat aaatactgtt ttactgtcca aagacatgtt tatagtgtct 2700
tgtaaatgtt cctttccttt gtagtctctg gcaagatgct ttaggaagat aaaagtttga 2760
ggagaacaaa caggaattct gaattaagca cagagttgaa gtttataccc gtttcacatg 2820
cttttcaaga atgtcgcaat tactaagaag cagataatgg tgttttttag aaacctaatt 2880
gaagtatatc caaccaaata ctttaatgta taaaataaat attatacaat atacttgtat 2940
agcagtttct gcttcacatt tgattttttc aaatttaata tttatattag agatctatat 3000
atgtataaat atgtattttg tcaaatttgt tacttaaata tatagagacc agttttctct 3060
ggaagtttgt ttaaatgaca gaagcgtata tgaattcaag aaaatttaag ctgcaaaaat 3120
gtatttgcta taaaatgaga agtctcactg atagagggttc tttattgtct atttttttaa 3180
aaatggactc ttgaaatctg ttaaaataaa attgtacatt tggaraaaaa aaaaaaaaaa 3240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3300
aa 3302

```

<210> 2016

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 2016

```

caggcaggca ggctgagggc attgccaagg actaaaacca gtagagcaac ctctggccat 60
gtcacccttg cagtacagct ttatggcggg catccacttt gcggggctca aggccgtggg 120
cgagtcgggt cagaagcctc tggattatta cagagttaac ctgaccggga ccatccagct 180
tctggagatc atgaaggccc acggggtgaa gaacctgggtg ttcagcagct cagccactgt 240
gtacgggaac cccagtaac ctgccccttg atgaggccca cccacgggtg twtgttacca 300
accyttamgg saattccaat tyttcatcga ggaangancc gggactgtgc caggcagaca 360
agattggaac gcattcttg 379

```

<210> 2017

<211> 2056

1284

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2038)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

<400> 2017

```

gccttagctt tcagtgtagc tgggactaca ggtgtgaaca cagcttggaa atctcttaac 60
catgggagtt aagtctcaaa attctgggtg tacaagtggg tgaaacttaa aactgtatatt 120
aaaaaatagg attcgtgaat ttgagatagt tcataagtct gcaaaaggct gtataaatac 180
atattttaca ttactatta ttaattttgt agtaaatttg agtacagcac tctctttatc 240
tgtggaaaact tcagactctc ccctattact ttaatttcag tgagacatta ttaaataata 300
gtgggcttac acatttgttt tgctttactg acaataataa cacaacttgg aggctttttt 360
ttccttttcta ttcttctctt aaatgttcaa cactttttctg attttgtgat ttgaggttgt 420
ttaatagctt cctgaggctc cattgagacc gtatatacgt gacacttaac agtctagcct 480
tcctcgggtac atatagatata atgatgggtg ctttgcctgt agtaaatcca tgccaaaaca 540
taggctttca gtgcctatta catatggctt tcagctctct ctactgaggg atgtaggagt 600
ttattttctga ggtctgagcc tcttttctct tacttctctt actctttcct aagccttctt 660
tataaaaaact atgcatgttc tattgttttc ctttttgatt ccctttcttt tattatcccc 720
agtaggagtg acttgaatt ctcatatgtt agaaaaggcag rtctcctggg tgaagaaaag 780
atccacccaa gcaagtcagc atgtttaata atttttgagg gggatctcaa atgtgggaag 840
gattgttata taagacaacc aaatgatgac atgagacaat aaatgctata ggaattatgg 900
aggaataaatt agctatttat tttcttgggt agggaagaga tattattagt tgtagaagta 960
attactaact tctacatttt ttattgtgga aatcaaaaat atatatatga aaataaaatg 1020
ttataattga cttcagtgtc ccataaaacca gcttcaacaa ttaccaaatt gtgaccaatc 1080
tttacacaca tgcacagggtg tccctcagta tctgtggggc attgggttcta ggaccactta 1140
tggataccaa catctatgga tgctcaagtc cctgatataa aatgggtggac tatttgcata 1200
taacctgtgt acatcccgtt ttattttaa atccctaga tcacttataa tacgtaatac 1260
aatgtaaaat ccatgtaaat aactgttata ctgtattaag gaataacaac aagaaaaatg 1320
tacatgttca gtacagacgc aatttttttt gtgtgtggaa tattttcatt ccaagggtcag 1380
ttgaacccat ggacatagga ggctgactgc gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 1440
gtgtgtgtgt gcatacagac acacatatat ctgaaatgta aatattctct ttttaaaaaa 1500
attattatca cagctaaaca aattaccagt aattctttta tcctcatata cccggtgttc 1560
agattttcta gattggctcc taattttttt acagattatt tgaatctgat tcaattcatg 1620
tactgtaatg tttgataact taagtaccct ttatagggtt tcttttacct cttctttatt 1680
aaattccttg taatttgttg tactaaatag attgtcttct agaatttctt gtagtctgaa 1740
ttatgtagta ttgtttcaca tgttccagtg tcctcttatt tcctgtgagt tggtagttag 1800
atctagaagc ttgattaaat tcagattttt tctctttaga tcatcaactt tagatcatca 1860
acttgatca tttgtttcat tttgtttttg atatgttgtt ttttagaatt acctcttaaa 1920
attttgattt aattttataa tcatgtaaaa tgtttataaa tttccaaatt cagatcagca 1980
aaacacaata aaatctattc agagaaggca aaaaaaaaaa aaaaaaaaaa aaaaaanaa 2040
aaaaaaaaaa aaanaa 2056

```

<210> 2018

1285

<211> 1891

<212> DNA

<213> Homo sapiens

<400> 2018

```
gcttctcagt tgtggacgmk cgtaagtttt cggcagtttc cggggagact cggggactcc 60
gegtctcgct ctctgtgttc caatcgcccg gtgcggtggt gcagggtctc gggctagtca 120
tggegtcccc gtctcggaga ctgcagacta aaccagtcac tacttgtttc aagagcgttc 180
tgctaatacta cactttttatt ttctggatca ctggcggttat ccttcttgca gttggcattt 240
ggggcaaggt gagcctggag aattactttt ctctttttaa tgagaaggcc accaatgtcc 300
ccttcgtgct cattgctact ggtaccgtca ttattctttt gggcaccttt ggttgttttg 360
ctacctgccg agcttctgca tggatgctaa aactgtatgc aatgtttctg actctcgttt 420
ttttggtcga actggtcgct gccatcgtag gatttgtttt cagacatgag attaagaaca 480
gctttaagaa taattatgag aaggctttga agcagtataa ctctacagga gattatagaa 540
gccatgcagt agacaagatc caaaatacgt tgcattgttg tgggtgcacc gattatagag 600
attggacaga tactaattat tactcagaaa aaggatttcc taagagttgc tgtaaacttg 660
aagattgtac tccacagaga gatgcagaca aagtaaaca tgaaggttgt ttataaaagg 720
tgatgaccat tatagagtca gaaatgggag tcgttgccagg aatttccttt ggagttgctt 780
gcttccaact gattggaatc tttctcgctt actgcctctc tcgtgccata acaaataacc 840
agtatgagat agtgtaaccc aatgtatctg tgggcctatt cctctctacc tttaaggaca 900
tttaggggcc cccctgtgaa ttagaaaagt gcttggtctg agaactgaca acactactta 960
ctgatagacc aaaaaactac accagtaggt tgattcaatc aagatgtatg tagacctaaa 1020
actacaccaa taggctgatt caatcaagat ccgtgctcgc agtgggctga ttcaatcaag 1080
atgtatgttt gctatgttct aagtcacact tctatcccat tcatgttaga tcgttgaaac 1140
cctgtatccc tctgaaacac tggaaagagct agtaaatgtt aaatgaagta atactgtgtt 1200
cctcttgact gttatttttt ttagtagggg gcctttggaa ggcaactgtga atttgctatt 1260
ttgatgtagt gttacaagat ggaaaaattga ttccctctgac tttgctattg atgtagtgtg 1320
atagaaaaatt caccctctct aactggctcc ttcccagtcagggttatctg gtttgattgt 1380
ataatttgca ccaagaagtt aaaatgtttt atgactctct gttctgctga caggcagaga 1440
gtcacattgt gtaatttaaat ttcagtcagt caatagatgg catccctcat cagggttgcc 1500
agatggtgat aacagtgtaa ggccttgggt ctaaggcatc cacgactgga agggactact 1560
gatgttctgt gatacatcag gtttcagcac acaacttaca tttctttgcc tccaaattga 1620
ggcatttatt atgatgttca tactttccct cttgtttgaa agtttctaat tattaatatg 1680
tgtcggaaatt gttgtatttt ccttaggaat tcagtggaaac ttatcttcat taaatttagc 1740
tgggtaccagg ttgatatgac ttgtcaatat tatggtcaac tttaagtctt agttttcgtt 1800
tgtgcctttg attataaagt ataactctta tacaataaat actgctttcc tctaaaaaaaa 1860
aaaaaaaaaa aaaaaaaagt cgtatcgatg t 1891
```

<210> 2019

<211> 3557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2779)

1286

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3557)

<223> n equals a,t,g, or c

<400> 2019

tatgcccgcac	ccgtctacct	ttagaacact	ttgctnatcc	aagatgggga	gaatccagtt	60
caaactctctt	tgkactaatt	ttatcatatt	gtactttaag	atcactggta	tctaaccctt	120
ctacattaag	gccaaactga	agggcatctc	ccagctgcag	taagaactca	gatgatgagt	180
gaagaattct	ggggttgggg	gagtgcata	taagcaagct	aacctgtttc	aatgaaacag	240
atgatcaatg	aagacactgc	atcatttggt	tccaaaagtt	aggccttgca	gccaaaggctt	300
tggcttttta	gagaaaatta	gctctaaaga	ccagggcacc	taggcaacct	agcagagaag	360
aagtttcatg	aagtcagagc	ccagggtgtt	gggtgaggg	aggaggttg	ggcaaagcaa	420
cactgggctt	ctaaaaaaga	aatgtctccc	ctgagatgaa	tgacttggtg	gcacaagttt	480
caggaaagac	aaagctctaa	aaatatcatt	gtaaaattaa	taatacttct	ccaaagtaag	540
gactcaactc	aaactatcct	tggatgcaat	taaaatggcc	ttggaagaag	ctttcaggtg	600
cggaggtact	caccagtgtc	ctgccagcac	cttcactctc	gaagaagtca	tcggagggag	660
ccactacett	gattttatga	ccacagatga	gtttccctta	atccgaaaga	gattgacttt	720
tggcattttt	ttcttagttt	ttgtttattt	atattctttt	aagcttttaa	aaaaagtgtc	780
attgctgtgc	ttcttattcc	tctggctgac	tttagaattg	aggactggga	atcctgaaaa	840
tttgcaaagt	tatctactat	cctcactgcc	ttggaacacc	cattattcca	ctctgtctaa	900
tttctactca	tgtttcaagt	ctaaacagga	agattcctct	gtgatcatgc	ctctcccttt	960
ctcatgaatt	aatgcatat	attatgctag	taatgcttct	ggaatgaatg	aataatagaa	1020
agaaagaaag	tggggggagg	gaagcaggg	aagtaaaatg	agaaaggcag	ccttatcttg	1080
aaggagctcc	caaaagtgt	tctcttaaca	cctatcagaa	aaaaaagggc	caacaaatat	1140
ccaggcaacg	aaggtatgga	ccagtaggaa	gaatctgagg	gaattacatt	ttggaaaaag	1200
cattgctctc	ccaagattcc	cttttaaaaa	tttaataaaa	ccttgagagt	agtgatgcat	1260
aaatgaattt	gatctgtcac	agtcccgcct	ttggaagagg	gcctcagagc	ttatgaaaga	1320
ccctaagtgg	gggtgggaga	agacaaaagg	ggtgggatgt	cagtttcaag	tttccagggc	1380
attctctgat	tgtgctctat	gtccctgcag	actgccagt	tgacctcacc	ctctccagtc	1440
acccctcctc	agttccagct	atgagttcct	gcaacttcac	acatgccacc	tttgtgctta	1500
ttggtatccc	aggattagag	aaagcccatt	tctgggttgg	cttccccctc	ctttccatgt	1560
atgtagtggc	aatgttttga	aactgcacgc	tggctttcat	cgtaaggacg	gaacgcagcc	1620
tgcacgctcc	gatgtacctc	tttctctgca	tgcttgagc	cattgacctg	gccttatcca	1680
catccaccat	gcctaagatc	cttgcccttt	tctggtttga	ttcccgagag	attagctttg	1740
aggcctgtct	taccagatg	ttcttttatc	atgccctctc	agccattgaa	tccaccatcc	1800
tgctggccat	ggcctttgac	cgttatgtgg	ccatctgcca	cccactgcgc	catgctgcag	1860
tgctcaacaa	tacagtaaca	gccagattg	gcacgtggc	tgtggctcgc	ggatccctct	1920
tttttttccc	actgcctctg	ctgatcaagc	ggctggcctt	ctgccactcc	aatgtcctct	1980

1287

```

cgcactccta ttgtgtccac caggatgtaa tgaagttggc ctatgcagac actttgcccc 2040
atgtggtata tggctcttact gccattctgc tgggtcatggg cgtggacgta atgttcatct 2100
ccttgtccta ttttctgata atacgaacgg ttctgcaact gccttccaag tcagagcggg 2160
ccaaggcctt tggaaacctgt gtgtcacaca ttggtgtggt actcgccttc tatgtgccac 2220
ttattggcct ctcaagtgtga caccgctttg gaaacagcct tcataccatt gtgctgtgtg 2280
tcatgggtga catctacctg ctgctgcctc ctgtcatcaa tcccatcatt tatggtgcca 2340
aaaccaaaaca gatcagaaca cgggtgctgg ctatgttcaa gatcagctgt gacaaggact 2400
tgcaggctgt gggaggcaag tgacccttaa cactacactt ctcttatctt ttattggctt 2460
gataaacata attatttcta acactagctt atttccagtt gcccataagc acatcagtac 2520
ttttctctgg ctggaatagt aaactaaagt atggtacatc tacctaaagg actattatgt 2580
ggaataatac atactaatga agtattacat gatttaaaga ctacaataaa accaaacatg 2640
cttataacat taagaaaaac aataaagata catgattgaa accaagttga aaaatagcat 2700
atgccttggg ggaaatgtgc tcaaattact aatgatttag tgttgtccct actttctctc 2760
tcttttttct ttctttttnt tttattatgg ttagctgtct caaagcataa aatggaataa 2820
catatcaaat gaaacagggg aaaatgaagc tgacaattta tggagccag ggcttgtcac 2880
agkctctact gttattatgc attacctggg aatttatata agcccttaat aataatgcca 2940
atgaacatct catgtgtgct cacaatgttc tggcactatt ataagtgtt cacaggtttt 3000
atgtgttctt cgtaacttta tggagtaggt accatttgtg tctctttatt ataagtgrga 3060
gaaatgaagt ttatattatc aaggggacta aagtcacacg gcttgtgggc actgtgcca 3120
gatttaaaat taaatttgat ggttgaatac agttacttaa tgaccatgtt atattgcttc 3180
ctgtgtaaca tctgccattt atttcctcag ctgtacaaat cctctgttt ctctctgtta 3240
cacactaaca tcaatggctt tgtacttgtg atgagagata accttgccct agttgtgggc 3300
aacacatgca gaataatcct gttttacagc tgcctttcgt gatcttattg cttgcttttt 3360
tccagattca gggagaatgt tgttgtctat ttgtctctta catctccttg atcatgtctt 3420
cattttttaa tgtgctctgt acctgtcaaa aattttgaat gtacaccaca tgctattgtc 3480
tgaacttgag tataagataa aataaaattt tattttaaat tnnaaaaaaaa 3540
aaaaaaaaaa actcgan 3557

```

<210> 2020

<211> 1599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 2020

```

gggcgcggga aggtgcgggg ttgtggctga ggcaagccgt ggctcgggag acgcggggcc 60
aggaggcgag gaccgtctgc cggcgacagc ccataaccgtc tgccgttgcg cgacacgaac 120
caccctccga tccgccatcc ccgcgtcgtc gccgctagtc cgcgcccccg cctcggggcc 180
ccccgctgcc gagcccgaac tcctaagagc tgaaagaaat tattgagagt catagtccat 240
agccccctgc ttcgtccccc aaccctcaac gacgaaaagg acttcgggtcc cctggccccg 300
cgacgccccg gaaggaaagg agagcgacct ccgccccgcg ctcaggccac cctggaggga 360
gaagccgccc cgcgcnnsgg ttagagcgcc ccgcccgcgc gtagaccgga agccgcctgg 420

```


1288

```

agcccaaggc tgtacacgtg cctgtgtgtg attctctgcc taggaaagga ccatgcagct 480
agagatcaaa gtggccctga acttcatcca tctcctactt gtacaacaag ctgccccggc 540
gccgggcaga cctgttttggg gaggagctag agcggctttt gaaaargaaa tatgaaggcc 600
actggtaccc tgagaagcca ctgaaaggct ctggcttccg ctgtgttcac attggggaga 660
tggtggaccc cgtggtggag ctggccgcca agcggagtgg cctggcgggtg gaagatgtgc 720
gggccaatgt gcctgaggag ctgagtgtct ggattgatcc ctttgagggtg tcctaccaga 780
ttggtgagaa gggagctgtg aaagtgtgtg acctggatga cagtgagggt tgcggtgccc 840
cagagctgga caaggagatc aagagcagct tcaacctga cgcccagggtg ttcgtgccc 900
ttggcagcca ggacagctcc ctgtccaact ccccatcgcc atcctttggc cagtcaccca 960
gccctacctt cattccccgc tccgctcagc ccatcacctt caccaccgcc tccttcgctg 1020
ccaccaaatt tggctccact aagatgaaga agggggggcgg ggcagcaagt ggtgggggtg 1080
tagccagcag tggggcgggt ggccagcagc caccacagca gcctcgcatg gcccgctcac 1140
ccaccaacag cctgctgaag cacaagagcc tctctctgtc tatgcattca ctgaacttca 1200
tcacggccaa cccggccccct cagtcccagc tctcacccaa tgccaaggag ttcgtgtaca 1260
acggtgggtg ctcacccagc ctcttctttg atgcggccga tggccagggc agcggcaccc 1320
caggcccggt tggaggcagt ggggctggca cctgcaacag cagcagcttt gacatggccc 1380
aggtatttgg aggtggtgcc aacagcctct tcctggagaa gacacccttt gtggaaggcc 1440
tcagctacaa cctgaacacc atgcagtatc ccagccagca gttccagccc gtggtgtgtg 1500
ccaactgacc atctacctgc ccgtggggcc aggagcacc c aagaccacag aaaagagaaa 1560
ggaaaggcca aaaaaaaaaa aaaaaaactc gagactagt 1599

```

<210> 2021

<211> 2593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2348)

<223> n equals a,t,g, or c

<400> 2021

```

ggccactcca tctgagggtg gctgcgtgtc cacataygag gggacagggc tgaggatgag 60
gagaaccctg gggaccaga agaccgtgcc ttgcccgaa gtccctgcctg taggcctgaa 120
ggacttgccc taacagagcc tcaacaacta cctggtgatt cctacttcag ccccttgggtg 180
tgagcagctt ctcaacatga actacagcct ccacytggcc ttcgtgtgtc tgagtctctt 240
cactgaragg atgtgcatcc aggggagtca gttcaacgtc gaggtcggca gaagtgacaa 300
gctttccctg cctggctttg agaacctcac agcaggatat aacaaatttc tcaggcccaa 360
ttttggtgga gaaccgtac agatagcgct gactctggac attgcaagta tctctagcat 420
ttcagagagt aacatggact acacagccac catatactc cgacagcgct ggatggacca 480
gcggctgggtg tttgaaggca acaagagctt cactctggat gccgcctcg tggagttcct 540
ctgggtgcc aatacttaca ttgtggagtc caagaagtcc ttcctccatg aagtcactgt 600
gggaaacagg ctcatccgcc tcttctccaa tggcacggtc ctgtatgccc tcagaatcac 660
gacaactgtt gcatgtaaca tggatctgtc taaatacccc atggacacac agacatgcaa 720
gttgacagctg gaaagctggg gctatgatgg aaatgatgtg gagttcacct ggctgagagg 780
gaacgactct gtgcgtggac tggaacacct gcggcttgct cagtacacca tagagcggta 840
tttcacctta gtcaccagat cgcagcagga gacaggaaat tacactagat tggctcttaca 900
gtttgagctt cggaggaatg ttctgtatct cattttggaa acctacgttc cttccacttt 960
cctggtgggtg ttgtcctggg ttctatcttg gatctctctc gattcagtc ctgcaagaac 1020
ctgcattggr gtgacraccg tgttatcaat gaccacactg atgatcgggt cccgcacttc 1080
tcttcccaac accaactgct tcatcaaggc catcgatgtg tacctgggga tctgctttag 1140

```

1289

```

ctttgtgttt ggggccttgc tagaatatgc agttgctcac tacagttcct tacagcagat 1200
ggcagccaaa gataggggga caacaaagga agtagaagaa gtcagtatta ctaatatcat 1260
caacagctcc atctccagct ttaaaccgga gatcagcttt gccagcattg aaatttccag 1320
cgacaacggt gactacagtg acttgacaat gaaaaccagc gacaagttca agtttgtctt 1380
ccgagaaaaag atgggcagga ttgttgatta tttcacaatt caaaaccca gtaatgttga 1440
tcactattcc aaactactgt ttcttttgat ttttatgcta gccaatgtat tttactgggc 1500
atactacatg tatttttgag tcaatgttaa atttcttgca tgccatagggt cttcaacagg 1560
acaagataat gatgtaaatg gtatttttagg ccaagtgtgc acccacatcc aatggtgcta 1620
caagtgactg aaataatatt tgagtctttc tgctcaaaga atgaagctcc aaccattgtt 1680
ctaagctgtg tagaagtcct agcattatag gatcctgtaa tagaaacatc agtccattcc 1740
tctttcatct taatcaagga cattcccatg gagcccaaga ttacaaatgt actcagggtc 1800
gtttattcgg tggctccctg gtttgcatth acctcatata aagaatggga aggagaccat 1860
tgggtaaccc tcaagtgtca gaagttgttt ctaaagtaac tatacatgtt ttttactaaa 1920
tctctgcagt gcttataaaa tacattgktg cctattttagg gagtaacatt ttctagttht 1980
tgthtctggt taaaatgaaa tatgggctta tgtcaattca ttggaagtca atgcactaac 2040
tcaataccaa gatgagthtt taaataatga atattattta ataccacaac agaattatcc 2100
ccaatttcca ataagtccta tcattgaaaa ttcaaataata agtgaagaaa aaattagtag 2160
atcaacaatc taaacaaatc cctcggthct aagatacaat ggattcccca tactggaagg 2220
actctgaggc thtattcccc cactatgcat atcttatcat thtattatta tacacacatc 2280
catcctaaac tatactaaaag ccctthtccc atgcatggat ggaaatggaa gattthttht 2340
taacttgntc tagaagthct aatatgggct gttgcatga aggcttgagc aattgagthc 2400
atthtctarc tgcctthatt cacayagtha ygggtacta aaagthctgg gttgactcrr 2460
agagtygctg tcattctgtc attgctgcta ctctaactc gagcarcact ctcccagthg 2520
cagatccctt gkatcattcc argaggagca thcatccctt tggthtaatg rthcagggaat 2580
gratgsttat tat 2593

```

<210> 2022

<211> 1688

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<400> 2022

```

tgccggctgg agtccggagt ccctggccta ctggccgrac cgttccgaca ccgaggtgcc 60
tcctctggac ctgggctgga cggacactgg thtctaccgc ggcgtgagcc sggthcagct 120
ctthacccac ccgccaagg acgagaaggc gccgcacctc aagcaggngg thcaggcagat 180
gatccaacag gccagaagg tcattgctgt ggtcatggac ctctthcactg atggnghat 240

```

1290

```
ctttcaagac attgtggatg ctgcctgtaa gcgccgggtc ccagtgtaca tcatectgga 300
cgaggcagga gtgaagtatt tectggagat gtgtcaggac ctgcagctca ctgacttccg 360
gattcgggaac atccgtgtcc gctctgtgac aggcgtcggc ttctacatgc ccatggggag 420
gatcaagggg accctgtcat caaggttcct gatggtggac ggtgacaaag tggccactgg 480
atcttacagg ttcacctgga gttcctccca tgtggacaga aacctcctcc tgctcctgac 540
aggacagaac gtagagccct ttgacacgga gttccgggag ctgtacgcca tctccgagga 600
ggtggacttg taccggcagc tgagcctggc gggcagggtt ggccctccatt actcctccac 660
tgtggctcga aagcttatca accccaagta cgccttgggtg tcaggctgcc gccacccgcc 720
tggggagatg atkcgctggg ctgcccggca acagcgggag gcgggcggca acccgagggg 780
gcaggaggag ggcgccagcg gnggcgagtc ggcctggcgc ctggagagct tcctgaaaga 840
cctggttacg gtggagcagg tgctgcccc cgtggagccc atcccccttg gagagctgag 900
ccagaaggat ggcaggatgg tctctcacat gcacagagac ctgaagccca aatccccgaga 960
ggcaccagc cgaaayggca tgggagaagc ggcccggggg gaggccgcc ccccggggcg 1020
cttcagcagc aggtctcttca gtcgccgagc caagaggcct gcggcgccca atggcatggc 1080
cagctctgtc tccaccgaga cctctgaaat ggagtttctg acggggaaga ggcccaacga 1140
gaattccagt gctgacatct caggtaaaac aagtcccagt tctgccaagc ctagcaactg 1200
tgtgatttcc tgagctgcgg gatggtggtg ggcaggacgt gtggatgcct gcctgccctg 1260
ccctgtgctg tggagagcgc aggtcgcaca ctgcaccagt ttgcacatca gacgccaaact 1320
ggccttctgc cctgcagcct ccgtcctggc ctcaggagacg ctggatccca aatgagaggg 1380
tccgaagcat ctcagtcaca cgcctccacc ggactgtcgg tggctgggca ggggtcagtg 1440
ccacggcctc cttgtttaca tgaagtggaa gcttgaccag tgtctgctcg cctttgtgcc 1500
ccacccctc cgctgattgc cagatggggg gagggcccat tctttaaac tttatgggg 1560
ggggtgtctg gggcagctgc agtggcttct cctttccag gcttcctggt gcttctgatt 1620
ccccacgcca ctccccaccc aagagattgg tggaaataaaa gggaagaggg cagggccctg 1680
agactgga 1688
```

<210> 2023

<211> 2543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

1291

<400> 2023

```

gacagtnacn gtacnggant cccggctcgac ccacgcgtcc gggctcttct ggcgcacaaa 60
tgtcgttcgt ggcaggggtt attcggcggc tggacgagac agtgggtgaac cgcacgcgcy 120
cgggggaagt tatccagcgg ccagctaatt ctatcaaaga gatgattgag aactgttttag 180
atgcaaaatc cacaagtatt caagtgattg ttaaagaggg aggcctgaag ttgattcaga 240
tccaagacaa tggcaccggg atcaggaaaag aagatctgga tattgtatgt gaaagggttca 300
ctactagtaa actgcagtc cttgaggatt tagccagtat ttctacctat ggcttttcgag 360
gtgaggcttt ggccagcata agccatgtgg ctcatgttac tattacaacg aaaacagctg 420
atggaaagtg tgcatacaga gcaagttact cagatggaaa actgaaagcc cctcctaaac 480
catgtgctgg caatcaaggg acccagatca cgggtggagga ccttttttac aacatagcca 540
cgaggagaaa agcttttaaaa aatccaagtg aagaatatgg gaaaattttg gaagttgttg 600
gcaggtattc agtacacaat gcaggcatta gtttctcagt taaaaacaa ggagagacag 660
tagctgatgt taggacacta cccaatgcct caaccgtgga caatattcgc tccatctttg 720
gaaatgctgt tagtcgagaa ctgatagaaa ttggatgtga ggataaaacc ctagccttca 780
aaatgaatgg ttacatatcc aatgcaaact actcagtga gaagtgcac ttcttactct 840
tcatcaacca tcgtctggta gaatcaact ccttgagaaa agccatagaa acagtgtatg 900
cagcctatth gcccaaaaac acacacccat tcctgtacct cagtttagaa atcagtcctc 960
agaatgtgga tgttaatgtg caccacacaa agcatgaagt tcacttcctg cacgaggaga 1020
gcatcctgga gcgggtgcag cagcacatcg agagcaagct cctgggctcc aattcctcca 1080
ggatgtactt caccagact ttgctaccag gacttgctgg cccctctggg gagatgggta 1140
aatccacaac aagtctgacc tcgtcttcta cttctggaag tagtgataag gtctatgccc 1200
accagatggt tcgtacagat tcccggaac agaagcttga tgcatttctg cagcctctga 1260
gcaaaccctt gtccagtcag cccagggcca ttgtcacaga ggataagaca gatatttcta 1320
gtggcagggc taggcagcaa gatgaggaga tgcttgaact cccagccctt gctgaagtgg 1380
ctgccaaaaa tcagagcttg gagggggata caacaaagg gacttcagaa atgtcagaga 1440
agagaggacc tacttcagc aacccagaa agagacatcg ggaagattct gatgtggaaa 1500
tgggtggaaga tgattcccga aaggaaatga ctgcagcttg tccccccgg agaaggatca 1560
ttaacctcac tagtgttttg agtctccagg aagaaattaa tgagcaggga catgagggtc 1620
tccgggagat gttgcataac cactccttcg tgggctgtgt gaatcctcag tgggccttgg 1680
cacagcatca aaccaagtta taccttctca acaccacaa gcttagtgaa gaactgttct 1740
accagatact catttatgat tttgccaat ttggtgttct caggttatcg gagccagcac 1800
cgctctttga ccttgccatg cttgccttag atagtccaga gagtggctgg acagaggaag 1860
atgggtccaa agaaggactt gctgaatata ttggtgagtt tctgaagaag aaggctgaga 1920
tgcttgacaga ctatttctct ttggaaattg atgaggaagg gaacctgatt ggattacccc 1980
ttctgattga caactatgtg ccccttttgg agggactgcc tatcttcatt cttcgactag 2040
ccactgaggt gaattgggac gaagaaaagg aatgttttga aagcctcagt aaagaatgcy 2100
ctatgttcta ttccatccgg aagcagtaca tatctgagga gtcgaccctc tcaggccagc 2160
agagtgaagt gcctggctcc attccaaact cctggaagtg gactgtggaa cacattgtct 2220
ataaagcctt gcgtcacac attctgcctc ctaaaccatt cacagaagat ggaaatatcc 2280
tgcagcttgc taacctgcct gatctataca aagtctttga gaggtgttaa atatggttat 2340
ttatgcactg tgggatgtgt tcttctttct ctgtattccg atacaaagtg ttgtatcaaa 2400
gtgtgatata caaagtgtac caacataagt gttggttagca cttaagactt atacttgcct 2460
tctgatagta ttcttttata cacagtggat tgattataaa taaatagatg tgtcttaaca 2520
taaaaaaaaa aaaaaaaaaa aaa 2543

```

<210> 2024

<211> 504

<212> DNA

<213> Homo sapiens

<220>

1292

<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<400> 2024
ggcacagctt gtttttccaa gcagctgttt ggctttccra agcccacttt ctgtctttaa 60
raggtttaaa garactacca gaccattttc caatgaatgt cttggtacca ccagacccgt 120
agttcctatt gattcatcag attttgcatt ggatattcgc atgcctgggg ttacacctaa 180
acagtcgat acatacttct gcatgtctat gcgaatacca gtggatgagg aagccttcgt 240
gattgacttc aagcctcgag ccagcatgga tactgtccat cacatgttac tttttggatg 300
caatatgcct tcatccactg gaakttactg gttttgtgat gaaggaacct gtacagataa 360
agccaatgat tctgtatgcc tgggcgagaa atgcttcccc ctacccgggc tccccaaang 420
gtgttgggat tcagagttgg gaggagnaga ctgggaagta aatacttggg actacaggtg 480
acactaaggg ggantattaa tggc 504

<210> 2025
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (752)
<223> n equals a,t,g, or c

<220>

1293

<221> misc feature
 <222> (778)
 <223> n equals a,t,g, or c

<400> 2025

```

gactcctata gggaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc 60
cacgcgtccg gcaaaggatt ctattcttac cagtcactgc acgagtgggt cagggacacg 120
gatgcggagt ttgttgatat cgatggaaaa tcgcattctca tcctgtncan ccgtcccan 180
gtcccatca tcctccagtgaataaaagc tctaagaagt ttgtcccca tggtagacatc 240
cccaacatgg aggacgtact ggctgtgaag agcttccgaa tgcaaaatac cctctacett 300
tcccttaccg gcttcatcgg ggactcccgg gtcatgaggt ggaacagtaa gcagtttgtg 360
gagatccaag ctcttccatc ccggggggcc atgaccctgc agcccttttc ttttaaagat 420
aatcactacc tggccctggg gagtgactat acattctctc agatatacca gtgggataaa 480
gagaagcagc tattcaaaaa gtttaaggag atttacgtgc aggcgcctcg ttcattcaca 540
gctgtctcca ccgacaggag agatttcttt ttgtcatcca gtttcaaagg gaaaacaaag 600
atTTTTgaac atataattgt tgacttaagt ttgtgaagggt gtggtgggtg aaactaagag 660
aaatgtagca ttagctctac aaaagaggac caagaaaaat caacaaacaa atcaaagcca 720
ggctcagagc tctgaaatta aaaagcactg anatagttag atggtttcaa acttttancc 780

```

<210> 2026

<211> 2521

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 2026

```

gcttgggaag gccgcgttgc atggccagga gcagcagttc gggccgcgag tgcgggacac 60
cgaggtcagg tctcggaaaag ggaggacctc ctcgccccca ggggccccag gccagggtgca 120
cccttggccg cangtgcacg gtctccggaa agtgacggcg cccacgtccc agctggacca 180
tggcgcctcc gcggaacgtg gtgaagattg ccatccagat gcgtgacgcc atccccgagc 240
tcatccagct ggaccaggcg aagccctggc cgctgtgctg aaggagggtg gcgacgcgtg 300
gagcctgacg cactctgagc gttacgccct gcagtttgcg gatgggcacc ggagatacat 360
caccgagaat aaccgcgcgg agatcaagaa tggcagcatc ctgtgcctca gcacggcccc 420
agaccttgag gctgagcagc tcttgggtgg gctgcagagt aacagtcctg aagggcgccg 480
ggaagccctg argcgccttg ttccgctggc ctccggacatg atctttgcca gggagggtcat 540
cagccgtaat gggctccaga tactaggcac catcattgaa gatggggack acctaggaga 600
ggtgctggcc ctacgcctga gggccttctc agagctcatg gagcacggcg tgggtgcctg 660
ggagactctg agcatccctt ttgtgaggaa ggtggtgtgc tacgtgaaca tgaacctcat 720
ggatgcctcc gtgcctcccc tggcccttgg gctgctggag agtgtgacct tgagcagccc 780
agccctgggc cagctggtca agagcgaggt gccctggat aggctgctgg tgcacctaca 840
ggtgatgaac cagcagctgc aaaccaaggc catggccctg ctgacagcct tgctgcaggg 900
ggccagccct gtggaacgca agcacatgct tgactatctt tggcagagga accttcgcca 960
gttcatctat aagaacatca tccacagtgc agcaccaatg ggcgacgaga tggctcatca 1020
cctgtacgta ctgcaggctc tcatgctggg gctgctggag ccgcgcatgc ggacgcccct 1080
ggacccctac agccaggagc agcgggagca gctgcaggtc ctacgccagg ctgccttcga 1140
ggtggagggg gagtcctcgg gtgccgggct aagtgtgtac cgtcgccgtt cctctgtgtc 1200
ccgagagttc cgaaaactgg gcttttctaa cagcaaccca gcacaggacc tggagcgcgt 1260

```

1294

```

gccccccggt ctgctggccc tggacaacat gttgtacttc tccagaaacg cgcccagcgc 1320
gtacagccgg tttgtgttgg agaacagcag ccgcgaggac aagcacgagt gcccctttgc 1380
ccggggcagc atccagctga cgggtgctgt gtgtgagctg ctccgtgttg gggagccctg 1440
ctctgagaca gcccaggact tctcaccat gttcttcggc caagaccaga gcttccacga 1500
gctcttctgt gtgggcatcc agctgttgaa taagacctgg aaggagatgc gggctacaca 1560
ggaggacttc gacaagggtca tgcagggtgg gcgggagcag ctggcccgca ctctggccct 1620
gaagcccaact tccctggagc tcttccgaac caagggtgaat gcgctcactt atggggagggt 1680
gctgcggctg cggcagactg aacggctgca ccaggagggc aacttggtc cccctatact 1740
ggagctgcgg gagaagctga agccagagct catgggcctg atccgccagc agcgcttgct 1800
ccgcctctgt gaggggacgc tcttccgcaa gatcagcagc cggcggcgcc aggataagct 1860
gtggttctgc tgcctgtccc ccaaccacaa gctgctgcag tacggagaca tggaggagggt 1920
cgccagcccg cctaccctgg agagtctgcc cgagcaactc cctgtggccg acatgagggt 1980
actcctgaca ggcaaggact gccccatgt ccgggagaag ggctccggga agcagaacaa 2040
ggacctctat gagttggcct tctcaatcag ctatgaccgt ggggaggagg aagcgtaacct 2100
caacttcatt gccccctcca agcgggagtt ctacctgtgg acagatgggc tcagtgcctt 2160
gctgggcagt cccatgggca gcgagcagac acggctggac ctggagcagc tgctgaccat 2220
ggagaccaag ctgcgtctgc tggagctgga gaacgtgccc atccccgagc ggccaccccc 2280
tgtgccccca cccccacca acttcaactt ctgctatgac tgcagcatcg ctgaaccttg 2340
acagtgtggc tggccatggg ccacagctgc ggccactgca gcagccatga agggcagtggt 2400
gtagaggagt gcaggcacc tgaccagcag agattgctgc agaaataaag tctgcttggt 2460
tcttgggata tgttgagcca gctctgtaaa aaaaaaaaaa aaaaaaaaaa aaaagtcgta 2520
t

```

<210> 2027

<211> 2357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2332)

<223> n equals a,t,g, or c

<400> 2027

```

tctccctttg ctgcagsytg agatgtgtat aagagacagc tatagaaggt acgcctgcag 60
gtaccggtcc ggaattcccg ggtcgacca cgcgtccgc cagcgtccg cgagcgcgtg 120
ggctgtgact gaaatcattt tcccatatga gcagaccctg tgtgtcaggc ctgtttccca 180
tatgagcaga gcctgtgtgc aagtctgttt ctggcatgtc cctcattgag gaagggaagc 240
aaaagctggt tattgccagg cctattaaca cttaatatgc aaattctatc atcctgaaac 300
tggggcatct gaggaaaagg tgaccttgc ggatggcttt atttgcattg ctctgcctgt 360
ctgcagtggt tgagtccctc tcacctggtg tgtgtatgag caaatgtgtg ctgatcgtga 420
tgcccaggca gaaacctctt gaagactgct gcaggcatgc tttaaaaatg accagtcact 480
catcagagaa gctgggtgat ctgactccag agggactgaa gtcagagaag tcacaagagc 540
acctaggatt caaataaata gcgtcagagt cctatagcaa cctccaagta gcaccgtctt 600
acttggctct tgtgagcaaa gactgcagta ccttaaatta aggcctctct ttaaaacata 660
tgtggaagac taggggatcc ttggccacct ggtctcagag aaatcatatg agagtaacag 720
gcatttcctt attgtatttg tactacactc ttccctactt tccattcctg aacaccctct 780
aattaccact gttttgggga tgcttttttt ctgaaagaac ggggagtaca ggggccaaaa 840
gggagggtgt tctattacag ggcaagttag atcagataag aagatctagc agtgatttaa 900
actccaggaa tatgaagagt gcattctggt gtccagacag ttgtgaaggg ctcggaacat 960
ataagagcac cattggctac atggagagca aaggctgtct ttgaagacc caggagggtc 1020

```

1295

```
ttcacttttg cctaaattca gatttgccgt gaaaattcca aagagagcag atatttggat 1080
ttgccctcct ttgggcacat acctgactgt tgtgtgtgtg ggaaagtcag tgtgtatgtg 1140
tagagtgtgc ttaggagtga gtgagtgggc aggcctcctg gctaggtgtg ttgtccatag 1200
ttttgttgtt gttgttggtt ttgttcagag ttttgaatct tacgttttct agagctgctc 1260
atgtttttccc ttccctttttg tcgtttagt atttgacagt tgtcttttcc atcaaaaaaca 1320
tactggccct aggcctggta gagcaagggg ttatgcctgt taggcagcat cttacgcca 1380
gtgttctccc agatattctg cctaacaggt ttaagtagga gattaaatag tcagtttatc 1440
taaaccctct atttttccaa actagcttga gaggtctttt catctatttt tactccatgg 1500
gcctctgata tgctgagatg tgrcacggtt atgattatgg tatcacctgt acagaggcaa 1560
agggataaag gtctaccagg gccaacgtaa ccagaatgtg aggagagtga agagtcgggc 1620
tccgctttgc acagtaccag aatgtgaggt tgccactgga gagtggagag tcggtctcca 1680
ctttgcacag ttggagctgt tctcctctaa ctcccttctg gggttttctg tttgaaattg 1740
gcccctactc ctctccagcc ctttactggg ttttctgttt gaaattggcc cctactcctc 1800
tccagccctt tattgggttt tctgtttgaa attggccctt actcctctcc agtgtctgct 1860
ttttgaatcc ttctgttcgt gtgtgtgtgt gtgtgtgtgt gtgttcccta tgatactggc 1920
agtggcaata attttccacc cagagagaag cttgtggtcc acaatgctcg aagaatgaat 1980
ttccaagtat ttgccagtgg aaacggagca gaggcctatga caagagtgat ttagtgttgc 2040
actttcagag caattatcta ctgcagtaat aaattgaaaa tatcagcaag aaaaaaaaaa 2100
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcggccg 2160
ctctagagga tccctcgagg ggcccaagct tacgcgtgca tgcgacgtca tagctctctc 2220
cctatagtga gtcgtattat aagctaggca ctggccgtcg ttttacaacg tcgtgactgg 2280
gagatctgct agcttgggat ctttgtgaag gaaccttact tctgtggctg tntcttatac 2340
acatctcaac ctgcagg 2357
```

<210> 2028

<211> 1783

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1296

<222> (1576)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1692)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1694)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1733)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1747)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1772)
 <223> n equals a,t,g, or c

<400> 2028
 ggtctctggtg caaaacttcc ctgcttnatc ttttctttct gtagatcaaa ggttggcaaa 60
 ctttttttgt tttgggccag ttaataaata tttnnngnttg tggggcttca tacagactct 120
 gttgcaacga cttaactctg cagtttctaag gcaaaagagc catacaaaaa caatagttgt 180
 gtctgtgttc caatgaatct gtacttataa aaaagggcag ggaatggatt tggcccatgg 240
 accatagttt tcccatgtca gctctagact tctgcagatg gctccaatta catgtattcc 300
 atcacagcag actccagggtg gcgctgtcag tectcaagtt cacatcacct agtaaattta 360
 gtacttgtaa ctaactagct ctcttccaat tccagattcc tagggaaagg acttcagttg 420
 tgtcagggtg cactatccaa ctgtgttgcc ttaagggcgg aaatgtgtgg ctagcagccc 480
 tctcagcagg ggctgtgggt agtctctcct gagaagaagg agcaaagggt atgggtgatg 540
 ggcaactctt aaagaaaaaa ggtatgggga tgggctgggt atgtgccccca gggttccccca 600
 tagatccagg aagatcacct gtttattctg cttttatttc ttataatctg ttttttttta 660
 tgttgaggaa cttattttta acaattaatt tgagtatgaa ctctaataaa aagctgactg 720
 taatgcatag tttaaagttt aaaccttgcc gagcaataac aatctctaga tgtctgttgt 780
 ttcactctaa tacttactgt ggaattacac ctgagttgtt ttccttcttt tttatgagcc 840
 taggagatca gccataacct aggagtttgc tacatatacc tgaagcagtt caacaaggca 900
 caagaccagt tgcacaatgc cctgaatctt aataggcagc atctgactta tataatgctg 960
 gggaagatcc acttgctgga gggagacttg gacaaggcca ttgaagtcta caagaaagca 1020
 gtggagttct caccagaaaa tacagagctt cttacaactt taggattact ctacttacag 1080
 ctcggcattt accagaaggc atttgaacat cttggcaatg cactgactta tgaccctacc 1140
 aactacaagg ccatcttggc agcaggcagc atgatgcaga cccacgggga ctttgatgtt 1200
 gccctcacca aatacagagt tgtggcttgt gctgttccag aaagtcctcc actctggaat 1260
 aacattggaa tgtgtttctt tggcaagaag aaatatgtgg cggccatcag ctgectgaaa 1320

1297

```

cgagccaact acttggcacc cttcgattgg aagattctgt ataatttggg ccttgtccat 1380
ttgaccatgc agcagtatgc atcagctttt cattttctca gtgcggccat caacttccag 1440
ccaaagatgg gggagctcta catgctcttg gcagtggctc tgaccaatct ggaagatata 1500
gaaaatgcc aagagagccta cgcagaagca gtccacctgg ataagtatgc actttgttga 1560
gaatggtact ggcgngggtt ggactcttca aagccatgag gtggtgccat acatagcatt 1620
ggtgctggct gtgtcagccc agctggctct ctatggcatt agtacatagc agacctcagt 1680
gtggagggat gngnctccta agtatgtggt ggcttagcag gaaattgaca cnttgagaaa 1740
atggttnacg gcctaaactg agtaatcagg angctagaga atg 1783

```

<210> 2029

<211> 4331

<212> DNA

<213> Homo sapiens

<400> 2029

```

ttacgccaaag ctccgaaatt aaccctcact aaaggaaca aaagctggag ctccaccgag 60
gtggcgcccg ctctagaact agtggatccc cgggctgca ggaattcggc acgagcaacg 120
atgccgcaag catggaatct ttatatgac tctgggagtt ctatctaccc tatttatatt 180
cctgtatatc attgatggga tgtttgttac ttctcttggtg tacaccagtt ggcctttctc 240
gtatgttcac agtcatgggt cacttgctag tgaagccaac aattcttgaa gacctggatg 300
aacaatttta tatcattacc ttagaggaag aagcactcca gagacgacta aatgggctgt 360
cttcacgggt ggaatacaac ataattggagt tggaaacaaga acttgaaaat gtaaagactc 420
ttaagacaaa attagagagg cgaaaaaagg cttcagcatg ggaaagaaat ttggtgtatc 480
ccgctgttat ggttctcctt cttattgaga catccatctc ggtcctcttg gtggcttgta 540
atattctttg cctattgggt gatgaaacag caatgccaaa aggaacaagg gggcctggaa 600
taggaaatgc ctctctttct acgtttgggt ttgtgggagc tgcgcttgaa atcattttga 660
ttttctatct tatggtgtcc tctgttgctg gcttctatag ccttcgattt tttggaaact 720
ttactcccaa gaaagatgac acaactatga caaagatcat tggaaattgt gtgtccatct 780
tggttttgag ctctgctctg cctgtgatgt cgagaacact gggaatcact agatttgatc 840
tacttgccga ctttggaagg tttaattggc tgggaaattt ctatattgta ttatcctaca 900
atgtgctttt tgctattgtg acaacattgt gtctgggtccg aaaattcacc tctgcagttc 960
gagaagaact tttcaaggcc ctagggtctc ataaacttca cttaccaaat acttcaaggg 1020
attcagaaac agccaagcct tctgtaaatg ggcacacaga agcactgtga gacgcacaga 1080
cggcgtcttc tgccaccaag agaccgaga actccagatt cagcacattc ctgtcccatg 1140
tagaagcatt tccattcaac cgtggccctt cttcagaacc tagacctatc agtgccattt 1200
ttttttcata atctacgaag aacttggcta tggtgatct tttttaaatt taactttctg 1260
atggaccctg tagtttccag ttaagtgcag attcettaca gacatataga acaagcgcat 1320
tcttctgtag acatttgctc atgttggtaa atacaatcac ccatatgaaa aaattgtttt 1380
cacctgatat ggaaaatggt agaaaaggca aactccggga cttctaaaga tttacttaaa 1440
tcccattatg tactctatcc agaattgtag agctgacttg aaaggcatcc ttggtactaa 1500
gtgaagctta ttcagaaaat gcatttttca aatgcaatgg caactgcttg tagatatcat 1560
ttttgcagtg tatgttggag ctgtaatggt tgcaattatg tttcttattt ccttaaaagc 1620
aaaaagcgta gtttctgatt tatgttatag aatgatactg attagacttt gagccaaggg 1680
gaaaatacta aattctttta aacctggagc cttagagagc cacaggaata tcttctgttg 1740
tacagtctaa taagctgtgg taggaagtat catgtaatca cagtttaatg acagtttatg 1800
tatatatata attcagtatt ccctcgaggg ggggcccggg acccaattcg ccctatagtg 1860
agtcgtatta ttaccttata ggctatatgt atactcagtt ttttaaagca tttttttcag 1920
agatcactta attccccatg cttctgcaat gcccataaaa actataaatg ccgaatggta 1980
gaaactcctc tttccgctta gaggtcccg cagggggccca attgcgtatg cgacgtcata 2040
gtcctgtctt atagtagtct attataagca agttcacagc atcagcattc catgggtgggt 2100
taagaacagt tttggcaagt tattaacacc gaatctgaat aatccattca gttattttaa 2160

```

1298

```

gttggtaaat taattaattg gggatggttt cttggcttta agtccactga ataaaaacta 2220
tgaaattgca ctctgtgtca accatccact aaggatagaa ataccgaaat ctgtgcatgc 2280
aaaaatagga gatgggcccc tttgcacaca attcgtagtt atgcagtctg ctatataaat 2340
atgttcacat gcaactgtgtg tatgaaaata gatgggtctgt gttcagacaa aagtaaaaca 2400
tttttttcaa attgttacat ttaaagggtt tctgggagaa atttatgaaa cgcaggctgt 2460
gtctatttga catcagaaat ttccacttta aaccaaata ataagaaact ttaatctgta 2520
tatttacaac ctttgttgag tacacttccc ctttatttat acgtctgcat ttcttccga 2580
gcttcacatc tttacttaaa atgcagcttg gttttaaaat taaaaggaac attcattttg 2640
tggattctaa acaagcttca gtaaatacca ccagtatagt actggtgaat ttctcagcat 2700
aaaatcgaca tacctaaaaa gttaataaaa ttcagctctt ttccaatttc attgttatgc 2760
ctattgaagt attaatggcc aggtttgatt tttagtgaag cttggagtcc atactttgag 2820
cagaccaagt gaaaggggag aacagaaaga aactcaggag tagagtaata tcaacttctca 2880
cttacaccac ttttcaggca catccaaaga gttcctagat acttggaaaa tgtctgaaaa 2940
tttttaagta aaatactaaa cttttcagtg tttagctcaa ctttttggtc atttggaggt 3000
ttctctccat ccgaggactt aagccagttt tggatttgta agccctgagt acaatacact 3060
tcctggaggc atcctcactg ctgttgaagc aaaggatatg catgggggtgg aaggacggct 3120
tcgaacctgg gactcatatg ccttgagaac aaatagattg ttacagcctt gggctgctgc 3180
gtaatcacgg ttctctgagg gggggctcct gtacccaatt cgccctatag tgagtccgta 3240
tacactgact ccaaatgcag gtgcttccat tggagctagg tcggaggctg ctttatatga 3300
cgaactccag aaatggatgc cagaatacgg aggccaaacg ttctgagtcc tggtaaggac 3360
agtcgctctg ggggtcctca ttttactgca gttcctgcac gccagtgaag gagaggagat 3420
agaccctgga aggagagct gcagatgctc atcatcaggt caattctgga gctacagttt 3480
tgtttctgac tggatagggg tgcaccagtg actgtcacat caagcagtcc ttttattctc 3540
tctcctttag tatcgatttt aaagggcatt aggcaactatg gttccagagt ttcttgggga 3600
aaacttgtca gattcttatt aattggttct gcaatactta aataaattat tttacaatta 3660
tgaagttttc agattataac atttgtatta attttactg attttccaag atacttctta 3720
gatttactat ttacgtagct ttatgtacat tctctgtaaa aatagacctc taaatatgag 3780
gctttacatg aaatttgtac acacatacac actaatgtta gtcctttaa ttgctgcaact 3840
aagggtgctg ttagtagaga tggacggagc ctctcgcgtt ttgctctcag atgtgttaaa 3900
ggcgacagtg tacctgctct cagcggcagt gcggcctccc catctgctgg gtgcccattg 3960
ccctccctgc agcctcagtg attgacctcg tctggccagg ggacacaggt tttcatccat 4020
ttacaggctc ttatgtgcta gtttgttg tagcacgttt atttaatgca taaaaggcag 4080
aattcttaca agtttttttt tttaatgtga acatagatgc agcaccgact ttttaaaact 4140
gaaaaaactg gtataatgtt aactttttaa aataacattt ggacacacta gtaattgatt 4200
tttgtttaca gattgttttt tttacaaatt gttagtcttt gtttctatga gatactttta 4260
gtgtgacttt ttaaatgtct tagaaattaa aagttgtaca aaaagtgaag aaaaaaaaaa 4320
aaaaaaaaat t 4331

```

<210> 2030

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<400> 2030

```

cgccggccgc gccacgtga ycggtccggg tgcaaacacg cgggtcagct gatccggccc 60
aactgcggcg tcatcccggc tataagcgca cggcctcggc gaccctctcc gaccggccg 120

```

1299

```

ccgccgccat gcagccctcc agccttctgc cgctcgccct ctgcctgctg gctgcacccg 180
cctccgcgct cgtcaggatc ccgctgcaca agttcacgtc catccgcggg accatgtcgg 240
aggttggggg ctctgtggag gacctgattg ccaaaggccc cgtctcaaag tactcccagg 300
cggtgccagc cgtgaccgag gggcccattc ccgaggtgct caagaactac atggacgccc 360
agtactacgg ggagattggc atcgggacgc cccccagtg cttcacagtc gtcttcgaca 420
cgggctcctc caacctgtgg gtcccccca tccactgcaa actgctggac atcgcttgct 480
ggatccacca caagtacaac agcgacaagt ccagcaccta cgtgaagaat ggtacctcgt 540
ttgacatcca ctatggctcg ggcagcctct ccgggtacct gagccaggac actgtgtcgg 600
tgccctgccg gtcagcgctg tcagcctctg ccctgggcgg tgtcaaagtg gagaggcagg 660
tctttgggga ggccaccaag cagccaggca tcaccttcac cgcagccaag ttcgatggca 720
tcctgggcat ggccatcccc cgcactctcg tcaacaacgt gctgcccgtc ttcgacaacc 780
tgatgcagca gaagctggtg gaccagaaca tcttctcctt ctacctgagc agggaccagg 840
atgcgcagcc tgggggtgag ctgatgctgg gtggcacaga ctccaagtat tacaagggtt 900
ctctgtccta cctgaatgtc acccgcaagg cctactggca ggtccacctg gaccagggtg 960
aggtggccag cgggctgacc ctgtgcaagg agggctgtga ggccattgtg gacacaggca 1020
cttccctcat ggtgggcccg gtggatgagg tgcgcgancg gcagaaggcc atcggggccg 1080
tgccgctgat tcagggcgag tacatgatcc cctgtgagaa ggtgtccacc ctgcccgcga 1140
tcacactgaa gctgggaggc aaaggctaca agctgtcccc agaggactac acgctcaagg 1200
tgtcgcaggc cgggaagacc ytctgcctga gcgg 1234

```

<210> 2031

<211> 1089

<212> DNA

<213> Homo sapiens

<400> 2031

```

ccacgcgtcc gataagcacc catgtctttg aatatgaatg tatttgtaaa ataccacgtt 60
tcatgtgtga atatgtgctt ttactgtaca tagtgctatt gtgcaatagg tcttatgctg 120
ttttcactca atgtgtgcta agatctagcc ccattgactc ttctagaaat gcagtattgc 180
tttgacctgc catgtggcac tccacaatgt caattgcagt ttacacacat tgcctaaagt 240
gggggacacc tgggtgcccc tgacccttg gcaccggata caggccacga taaacatcct 300
ttcgtgtgtt cccttctgtg cttgtgtggc atgtgtaccc aggatgggccc tatagggtcac 360
agaggtcagt ttctcttttg ttttccagat tttctttaga acggtgactg accctcctac 420
ttgaggccgc ctttttctcc ttatccttgc cagcacttgt attgccagac tacctaattt 480
ttgccagtct catgggtaga tagtggtgca gtgctttaac atacattcat ctgatcagca 540
ttaatttggg gaatttttct acttagcctt tctggtttcc cttcctgtgc attgcccatt 600
ttctcatgga gtttcttata ttttttggtt tattctcagg agttgcttgt acattcttgg 660
gcaattgcag ataattccaa gaatgcata ttgggctggg tatggagggt cactggtaat 720
cccagcactt tgggaggccc aggcagaagg atcgcctgcag ccaggaggt cgagactagc 780
ctgggcaaca tagcgagacc tcgtctctac aaaaaaaaaa taaaaagggg gctttggggag 840
gccaaggcgg gcagatcatg agggcaggag attgagaccc tcctggccaa catggtgaaa 900
ccccgtctct actaaaatac aaaaaattag ctgggcatgg tggcgcacac ctgtagtccc 960
agctactctg gaggtgagg caggggaatc gcttaaacc aggaggcgga gattgcagtg 1020
agccaagggt ccaccactgc actccagcct ggcgacagag caaggctcca ctcaaaaaaa 1080
aaaaaaaaa 1089

```

<210> 2032

<211> 983

<212> DNA

<213> Homo sapiens

1300

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (899)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (923)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (928)
<223> n equals a,t,g, or c

<400> 2032
cggggtcgacc cacgcgtccg cagtgtggaa gaaaagttaa atattaaatt tgaactcaac 60
tgaacatgga cacaaacaat ggtcaccaag tccctgaaca gggtgtgtga gccccttgag 120
gcggttcattc agcactgttt cggaggaatc tctatttcaa tctattccta tacattagtt 180
attgaaaaaac aacacacaat cgcaaaaaca agttgacctt tttgtgttcc ttgagaccga 240
taatgaaggg ccctcgtgac cggacctcat gccaaaacaac tcgttacaaa aagagctagg 300
gtcccagctg cgctgaagct tcntgagacc tctcctcatc tgtgcatgga tgagtggccg 360
actytggagc ccaggctgtt rcttcctrgt ctgggtggga atcctccata gtctgagagt 420
aagatccttg atactggctc agcatggaac atctggcaca cagtatgcac tgaggaaata 480
cttggttgga taatcagtga atcatagatg aaaacttaac cttggaatta attatgagac 540
tgctcagagg aagagaatgg gagacaaagg acctgggtgat tagaccccca agacactggg 600
ctgtctgctt gtgtctcggg tggaacaggc ccagcgagag tcttttagggc cagaactcaa 660
gaatttattg agcccttggt ctaggcactt gggattcacc agtatacaat ggagacaaaa 720
atccctgccc tggagcagct tacattctag catggcaaac aggcagtaaa cagcccattc 780
tggctgctgt attgagaaga gaatgtggtg gacagatata gaagcatgga aacctgatag 840
grctattgca atcactcaga aaagaggcga tggcagcttg gacctgttgg aagcagtana 900
gtgccctact cttcagcttn canggganga gaaaggacct gaaagggttaa ttttgatcac 960
caatgggcca atgatgtaat cag 983

<210> 2033
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

1301

<222> (637)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<400> 2033

```
cgggtcgacc cacgcgtccg cccacgcgts cgscacgcg tccgcggcgc gcggagacgc 60
agcagcggca gcggcagcat gtcggccggc ggagcgtcag tcccgcgcgc cccgaacccc 120
gccgtgtcct tcccgcgcgc ccgggtcacc ctgcccgcgc gcccgcacat cctgcggacc 180
tactcgggcg ccttcgtctg cctggagatt ctgttcgggg gtcttgtctg gattttgggt 240
gcctcctcca atgttcctct acctctacta caaggatggg tcatgtttgt gtccgtgaca 300
gcgtttttct tttcgtcctt ctttctgggc atgttcctct ctggcatggt ggcctcaaatt 360
gatgctaact ggaacttcct ggattttgcc taccatttta cagtatttgt cttctatttt 420
ggagcctttt tattggaagc agcagccaca tccctgcatg atttgcattg caatacaacc 480
ataaccgggc agccactcct gagtgataac cagtataaca taaacgtagc agyctcaatt 540
tttgccctta tgacgacagc ttgttatggt tgcaagtttg ggtctggctt tacgaagatg 600
gcgaccgcta acacttctta agaaaactgg cagtcgnatg ttaggtttca ctttgctact 660
ttatatggtc tggancaaatt tttggaataa cccaattttt ggtccaagaa tgccaaaaaa 720
ca 722
```

<210> 2034

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 2034

```
gctggcgcg cgacgggat gaggcgtgc agtctctacg ctttcggtaa cttccgggcc 60
ctggcgtmtc gtctccttac cctggggcta cccttgccc gtcctactgc ccgcgggttaa 120
```

1302

```

cccgccgcga gccgcctctc ccctccccgc ccgactcaac cctgccctcc cccgtgcttt 180
gcagacgccg yccggggggcc caggcggtg atgcgtgtgg gcctcgcgct gatcttggtg 240
ggccacgtga acctgctgct gggggccgtg ctgcatggca cgtcctgcg gcacgtggcc 300
aatccccgcg gcgtgtgcac gccggagtag accgtagcca atgtcatctc tgctcgntcg 360
gggctgctga gcgtttccgt gggacttgtg gccctcctgg cgtcaggaac cttcttcgcc 420
ctccactgac tgggtcctgc tggcactagc tctggtgaac ctgctcttgt cgttgccctg 480
tccctggggc tncctcttgc tgtgtcactc actggggcca acggtgggcc gcggcttatt 540
gntgactggc accca 555

```

<210> 2035

<211> 1084

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 2035

```

gccatccctg gctgtggcca aaatcatcat cattgaattc aaccccatgt accccaaana 60
caatgacatc gccctcatga agctgcagtt cccactcaact ttctcaggca cagtcaggcc 120
catctgtctg cccttctttg atgaggagct cactccagcc accccactct ggatcattgg 180
atggggcttt acgaagcaga atggaggga gatgtctgac atactgctgc aggcgtcagt 240
ccaggtcatt gacagcacac ggtgcaatgc agacgatgcg taccaggggg aagtcaccga 300
gaagatgatg tgtgcaggca tcccgaagg ggggtgtggac acctgccagg gtgacagtgg 360
tgggccccctg atgtaccaat ctgaccagtg gcattgtgtg ggcattcgta gctggggcta 420
tggtgctggg ggcccgagca cccaggagt atacaccaag gtctcagcct atctcaactg 480
gatctacaat gtctggaagg ctgagctgta atgctgctgc ccctttgcag tgctgggagc 540
cgcttccttc ctgccctgcc cacctgggga tccccaaaag tcagacacag agcaagagtc 600
cccttgggta caccctctg cccacagcct cagcatttct tggagcagca aagggcctca 660
attcctrrta gagaccctcg cagcccagag gcgcccagag gaagtcagca gccctagctc 720
ggccacactt ggtgctccca gcatcccagg gagagacaca gccactgaa caaggctctca 780
ggggtattgc taagccaaga aggaactttc ccacactact gaatggaagc aggctgtctt 840
gtaaaagccc agatcactgt gggctggaga ggagaaggaa aggtctgctg ccagccctgt 900
ccgtcttcac ccattcccaa gcctactaga gcaagaaacc agttgtaata taaaatgcac 960
tgccctactg ttggtatgac taccgttacc tactgttgtc attgttatta cagctatggc 1020
cactattatt aaagagctgt gtaacatmaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaa 1084

```

<210> 2036

<211> 345

<212> DNA

<213> Homo sapiens

<400> 2036

```

aaacattaca atattctcaa aaaaatccat atccatcacc attgcatatg cagtattact 60
ggttggtttt atgtaaatta cgttttaaagg tttattttta aaagtgtgca tattcaacat 120
aaagaaagaa aaaatctaac gaatttaaag tctgctgtaa tcctagcaca cgtgaacaca 180
atattaatat cttgggtttt ttattttctg atgttcgtga gcatatatat atatatatat 240
atatatatat atatatatat atatatatat atatatatat atatatataw 300

```

1303

atccccctcta gcaaattggcc tgtaatatgct tgtaagcatt ttttc

345

<210> 2037

<211> 1214

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<400> 2037

```
tggacgcgtg ggtcgaccca cgcgtccggt caaaaytaac cccctaataa aattaattaa 60
ccactcattc atcgacctcc ccaccccatc caacatctcc gcatgatgaa acttcggctc 120
actccttggc gcttgctga tcctccaaat caccacagga ctattcctag ccatgcacta 180
ctcaccagac gcctcaaccg ccttttcatc aatcgcccac atcactcgag acgtaaatta 240
tggctgaatc atccgctacc ttcacgccaa tggcgctca atattcttta tctgcctctt 300
cctacacatc gggcgaggcc tatattacgg atcattttctc tactcagaaa cctgaaacat 360
cggcattatc ctctgcttg caactatagc aacagccttc ataggctatg tcctcccgtg 420
aggccaaata tcattctgag gggccacagt aattacaaac ttactatccg scatcccata 480
cattgggaca gacctagttc aatgaatctg aggaggctac tcagtagaca gtcccaccct 540
cacacgattc tttacctttc acttcatctt gcccttcatt attgcagccc tagcagcact 600
ccacctccta ttcttgacg aaacgggatc aaacaacccc ctaggaatca cctcccattc 660
cgataaaaac accttcacc cttactacac aatcaaagac gccctcggct tacttctctt 720
ccttctctcc ttaatgacat taacactatt ctcaccagac ctcttaggcg acccagacaa 780
ttatacccta gccaacccct taaacacccc tccccacatc aagcccgaat gatattttcct 840
attcgcttac acaattctcc gatccgtccc taacaaacta ggaggcgtcc ttgccctatt 900
actatccatc ctcatcctag caataatccc catcctccat atatccaaac aacaaagcat 960
aatatttgcg ccactaagcc aatcacttta ttgactccta gccgcagacc tcctcattct 1020
aacctgaatc ggaggacaac cagtaagcta cccttttacc atcattggac aagtagcatc 1080
cgtactatac ttcacaacaa tcctaatacct aataccaact atctccctaa ttggaaaaca 1140
aaatactcaa atgggcctaa aaaaaaaaaa aaaaaacycg ggggggggcc gggtwcccaa 1200
tttccccctt aggn 1214
```

<210> 2038

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 2038

```
aataatatat ccctgtcggt ttgttttttc tttttaagac ttgggcccggg tgtgggtggct 60
cacgcgttta atcccaaagt gctgagatta cgccccggcct aaatattact ttcaaataga 120
accatcttca tgggtagcag tttataatac acaagtagaa tttgggaaat gtagtcccag 180
tcttccattc ttcacagtgg atgcttcagc cagtttccctg tctctgcaca cacactgccc 240
gacagcgggc tttcccttct ccttcagagc agtagcagtt ccctttcttc attcccacc 300
```


1304

```

atcacagtgg cagccccctc tgcctcctg tattctgaat cccaccctta taatatgctt 360
agattttgcc tttctcccag ccgttttgtg agcattgttc gtgtgtacca attttttctc 420
atccttttaa aaaaaaaaaa aaaaactnng gggggg 456

```

<210> 2039

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (588)

<223> n equals a,t,g, or c

<400> 2039

```

gggtcgaccc acgcgtccga aaaactgttn gggagcttga caaaggcatg caggagagac 60
aggagcagcc acagccagga gggagagcct tccccaagca aacaatccag agcagctgtg 120
caaacaacgg tgcataaatg aggcctcctg gaccatgaag cgagtcctga gctgcgtccc 180
ggagcccacg gtggtcatgg ctgccagagc gctctgcatg ctggggctgg tcctggcctt 240
gctgtcctcc agctctgctg aggagtacgt gggcctgtct gcaaaccagt gtgccgtgcc 300
agccaaggac aggggtggact gcggctaccc ccatgtcacc cccaaggagt gcaacaaccg 360
gggctgctgc ttgactcca ggatccctgg agtgcccttg tgtttcaagc ccctgcagga 420
agcagaatgc accttctgag gcacctccag ctgccccggc cgggggatgc gargctcgga 480
gcacctttgc cgggtgtgat tgctgcaggc actgttcac tcactttttg tccttgktcc 540
ggaagcgctt ttgctgaagt catattggac ctgatgntta acaataangt ccat 594

```

<210> 2040

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

1305

<220>
 <221> misc feature
 <222> (18)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (566)
 <223> n equals a,t,g, or c

<400> 2040
 gcttntacgc ctgcagcnac cgggtccggaa ttccccgggtc gacccaacgcg tcggcggtccc 60
 ggagcccacg gtgggtcatgg ctgccagagc gctctgcatg ctgggggtgg tcctggcctt 120
 gctgtcctcc agctctgctg aggagtacgt gggcctgtct gcaaaccagt gtgccgtgcc 180
 agccaaggac aggggtggact gcgggtaccc ccatgtcacc cccaaggagt gcaacaaccg 240
 gggctgctgc tttgactcca ggatccctgg agtgccttgg tgtttcaagc ccctgcagga 300
 agcagaatgc accttctgag gcacctccag ctgcccccg cgggggggatg cgaggctcgg 360
 agcaccttg cccggctgtg attgctgcca ggcactgttc atctcagctt ttctgtccct 420
 ttgctcccg caagcgcttc tgctgaaagt tcatatctgg agcctgatgt cttaacgaat 480
 aaaggtccca tgctccaccc gaggacagtt cttcgtgcct gagactttct gaggttgtgc 540
 tttatttctg ctgcgtcgtg ggasanggcg gkagggtgtc aggggagagt ctgccaggcc 600
 tyaagggcag gaaaagactc cctaaggagc tgcagtgcac gcaaggatat ttt 653

<210> 2041
 <211> 1916
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1766)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1883)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1911)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1912)
 <223> n equals a,t,g, or c

<400> 2041
 tcccaagaca ggattatgaa tactccacca gctgttgtgt cagtatatga ctgctgctgc 60
 tcctatgcaa gggaacctac attcctcagt acacgcctgt scctccgaca gctgtttcta 120

1306

```

ttgarggtgt  tgttgctgat  acctctcccc  agacagtggc  accttcatcc  caggacacca  180
gtggtcagca  gcaacagata  gcagtggaca  catccaacga  acatgcacct  gcatattctt  240
accaacagtc  taaaccataa  acaggactga  agaatgtytg  tytgaatctt  tgccttgaat  300
gaagaaactt  cattgaacaa  gaagttggct  tccagtttgc  acagacgtca  atggaatgca  360
tttttttgkt  gktgktgktg  tttttttttt  agtgktatac  cttacccaat  gaaagcaaag  420
tttttatgtg  ctgtgcaaat  ggtcttcatg  tggctcgaca  atttattttt  gccatcattt  480
ttttaattaa  agaaaaaatt  tccagaagag  gaaaaaaaaa  ctacaaaaaa  caaaacattg  540
aaggttgata  ttttatgtgg  aagaacattt  gaattgaatt  cagaattttt  ctgaagggtg  600
agatactttt  tttttttttt  ttaacagaaa  acctgatgtc  aagagggtgg  caatagaaat  660
ggaaacaaat  tgtcttcctc  aataattaag  ctactttctc  tttttccctt  cttgttttaa  720
tctagtgggt  tttttatttt  attttttctt  agaaatatgt  aggtaagggt  tatcttgaat  780
cttaattgcc  ttaattttta  ggacgtcaaa  ggctctcgag  gcaagctgtc  aacgtcttgt  840
tgaaaacaaa  aatcaagaaa  gaattgaaat  actgtgccgg  ctttctactg  cacagaagtt  900
taagactatg  agtttttagg  gtgaagaaaa  aactgtacag  tttaaatgaa  aatgtttttc  960
ttcatttgaa  gaaaatttgt  tgataaacca  tggcaactgc  aagaattgga  aaaatgctgg  1020
gacttttcat  gaactttgtc  ttaagtgttg  acatgaatca  ttctaaaagg  ctaaaacatt  1080
ttacagttaa  gttattaagg  ttggttttaa  aacaactgca  ttagaaataa  tgcgtgtttg  1140
gggggcagaa  tgcagatttt  ttttaatttac  aaagcgtgat  cgctagcaaa  agcattagtg  1200
ctttttatct  gcagtctttt  ttatgagctt  tacaaagttt  ttagtcagct  ttgcttgtca  1260
cattgcaaaa  cctagcttaa  gagcattaaa  aaaaaaaact  taagtagata  gkagcttatg  1320
gtcaaaaagt  gcaaaaaaaa  aaaacaaaaa  aaaagcaata  gatagagaaa  ttgttgacaa  1380
tttctgtagt  ctttcttagt  tgtgatcaaa  ttcagcctat  ggatggccta  ttttatacca  1440
aagatgaagt  grcaccttat  trcagtccag  aagatagagg  ttgttttcca  tttcttctct  1500
tttcttttct  ttttaagaat  tttatttgac  ctacatggcc  ggaccagttc  ttactttgtt  1560
gtttgtttta  actaccttcc  actggtgttt  tatatactgc  aaaacagaac  acaacaaaag  1620
gtgttttgtt  tttgtttttg  ttctgttttc  tgtttttgtt  tatttgttta  catgcatttg  1680
ttggttctag  tagaaaagct  gcacttgctg  tgttcagcag  tttctgccgg  aagagttckg  1740
gataccaact  gacaaagcca  aatggntttt  tattcaatct  gtgagctttt  ctgggtccta  1800
ctagctctct  tgaaggkgac  acctgtgtgg  gatgggccac  tgatatgtgg  agaccctggg  1860
ttaacaaggt  gaaaattcct  ttnccggtgg  aacctttgga  acctaaaagg  nncctt      1916

```

<210> 2042

<211> 1595

<212> DNA

<213> Homo sapiens

<400> 2042

```

aaatcttctt  acacacatct  agackttcaa  gtttgcaaat  cagtttttag  caagaaaaca  60
tttttgctat  acaaacattt  tgctaagtct  gcccaaagcc  cccccaatgc  attccttcaa  120
caaaatacaa  tctctgtact  ttaaagttat  ttttagtcag  aaattttata  tgcagagaga  180
aaaagttacc  gagacagaaa  acaaacttaa  gggaaaggaa  tattatggga  ttaagctgag  240
caagcaattc  tgggtggaaag  tcaaacctgt  cagtgtctca  caccagggct  gtggtcctcc  300
cagacatgca  taggaatggc  cacaggttta  cactgccttc  ccagcaatta  taagcacacc  360
agattcaggg  agactgacca  ccaagggata  gtgtaaaagg  acattttctc  agttgggtcc  420
atcagcagtt  tttcttctct  cattttattgt  tgaaaactat  tgtttcattt  cttcttttat  480
aggccttatt  actgcttaat  ccaaagtgtg  accattgggt  agacacatac  aatgctctga  540
atacactacg  aattttgtatt  aaacacatca  gaatatttcc  aaatacaaca  tagtatagtc  600
ctgaatatgt  actttttaaca  caagagagac  tattcaataa  aaactcactg  ggtctttcat  660
gtctttaagc  taagtaagtg  ttcagaaggt  tcttttttat  attgtcctcc  acctccatca  720
ttttcaataa  aagatagggc  ttttgctccc  ttgttcttgg  agggaccatt  attacatctc  780
tgaactacct  ttgtatccaa  catgttttaa  atccttaaat  gaattgcttt  ctcccaaaaa  840

```

1307

```

aagcacaata taaagaaaca caagatttaa ttatttttct acttgggggg aaaaaaagtc 900
ctcatgtaga agcaccact tttgcaatgt tgttctaagc tatctatcta wctctcagcc 960
catgataaag ttccttaagc tgggtattcc taatcaagga caagccaccc tagtgtctca 1020
tgtttgattt tgggtccagt tgggtacatt ttaaaatcct gattttggag acttaaaacc 1080
aggttaatgg ctaagaatgg gtaacatgac tcttgttgga ttgttatatt ttgtttgcaa 1140
tggggaattt ataagaagca tcaagtctct ttcttaccac agtcttggtt ggtggtttat 1200
agttcttttg gctaacaaat cattttggaa ataaagattt ttactacaa aaatgaaatt 1260
tgtttggaact tccacttgag acagtaaaga gagtattaga caccagtaa aaactgccat 1320
ataaagaagt tgtaattggt tgttgtgtat gtattttttt caatgccaaa ccagctgtga 1380
tccaattttac atccacattt taggtccaac agcaagaagt tcagagagag atttcccaac 1440
cagacattgg gtcactcact gggtcacctt ccagtgcat ttattagaag ggaatctgtt 1500
gtagcaaatg ggaataaacc tgggttttcta tagaccaga actgaaaaaa taaacatcgt 1560
gctgtttttta atttgaaaaa aaaaaaaaaa aaaat 1595

```

<210> 2043

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 2043

```

ggccgggacac cggggcgggcg ggttgggtcta cgctgtgcgc ggccggacgtc ggaggcagcgc 60
gggagcgagg cggggcccgc ggggcctctc cagggccgca ggggcagcag ttgggcccccc 120
cgccccggcc ggccggaccga agaacgcagg aagggggccg gggggacccg cccccggccg 180
gccgcagcca tgaactccaa cgtggagaac ctacccccgc acatcatccg cctggtgtac 240
aaggaggtga cgacactgac cgcagaccac cccgatggca tcaaggctct tcccaacgag 300
gaggacctca ccgacctcca ggtcaccatc gagggccctg aggggacccc atatgctgga 360
ggtctgttcc gcatgaaact cctgctgggg aaggacttcc ctgcctcccc acccaagggc 420
tacttctctga ccaagatctt ccaccgaaac gtgggcgcca atggcgagat ctgcgtcaac 480
gtgctcaaga gggactggac ggctgagctg ggcacccgac acgtactgct gaccatcaag 540
tgectgctga tccacctaa ccccgagtct gcaactcaac aggaggcggg ccgcctgctc 600
ttggagaact acgaggagta tgcagctcgg gcccgctctg tcacagagat ccacgggggc 660
gccggcgggc ccagcggcag ggccgaagcc ggctcgggcc tggccagtg gactgaagct 720
tcttccaccg accctggggc cccagggggc ccgggagggg ctgaggggtc catggccaag 780
aagcatgctg gcgagcgcca taagaagctg gcggccaaga aaaagacgga caagaagsgg 840
gcgctgcggc ggctgtagt ggctctcttc ctcttccac cgtgacccca acctctcctg 900
tccccctcct ccaactctgt ctctaagtta tttaaattat ggctgggggtc ggggagggta 960
cagggggcac tgggacctgg atttgttttt ctaaataaag ttggaaaagc aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agtcgtatcg a 1061

```

<210> 2044

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2044

```

ggcacgagcg gatgctcaac ctactgacc ggcaagtcaa aatctgggtc cagaatcgca 60
ggatgaaaga aaagaaactg aacagagacc gtctgcagta ttctactgga aacccttat 120
tttgagagct ccaggaagcg ccctcaccac agcccccact acccaccctc ctccccacca 180
gcctgctctc cgcagcccac tgtccttggg tttaatgacg tctcttctct gtggaayttc 240
acgattcctt cccacgggtca actcgggacc tcccagcgac cactgcagcc tgcggacgag 300
gccgggactt ggccgagcgg atcctaataa ggggaaaatg gtaaatgcaa acgtcccgtt 360

```

1308

```

acaattttac cgccagtgtg ctgtcgttcc cctccccmt ctccgagtc tegtggggac 420
acggcggggt ctgtaggaag ttgggccggg ttgggggttg ctagaaggcg ctggtgtttt 480
gctctgagtt ttaagagatc ccttccttcc tcttcggtga atgcaggtta tttaaacttt 540
gggaaatgta cttttagtct gtcatatcaa ggcattgagtc actgtctttt tttgtgtgaa 600
taaatggttt ctagtaaaat gaaarwaaaa aaaaaaaaaa aaaaaagtcg acc 653

```

<210> 2045

<211> 356

<212> DNA

<213> Homo sapiens

<400> 2045

```

cggggcagaa aggcggcaaa ktgttggttaa aaaagcagac atgatcaacr raaatatgac 60
tcatcaggtc caagctgaga gagatgcact ggcactaagc aaaagcccat tcattgkcca 120
tttgtattat tcaactgcagt ctgcaaaacaa tgtctacttg gtaatggaat atcttatttg 180
gggagatgtc aagtctctcc tacatatata tggttatttt gatgaagaga tggctgtgaa 240
atatatttct gaagtagcac tggctctaga ctaccttcac agacatggaa tcatccacag 300
ggacttga aa ccggacaata tgcttatttc taatgagggg catattaaac tgacgg 356

```

<210> 2046

<211> 1439

<212> DNA

<213> Homo sapiens

<400> 2046

```

tcccagctgg cctgccccct ctaccctccc tgccctgagca cttacctcct tagatggagg 60
ccgagacccc aagtactgag gtgccacctg acccagagcc tgggtgtacc ctgacacccc 120
catcccaaca ccaggaggcc ggtgctgggg acctgtgtgc actttgtggg gaacacctct 180
atgtcctgga acgcctctgt gtcaacggcc atttcttcca ccggagctgc ttccgctgcc 240
atacctgtga ggccacactg tggccagggt gctaygagca gcacccagga gatggacatt 300
tctactgcct ccagcacctg cccagacag accacaaarm ggaaggcagc gatagaggcc 360
ctgagagtcc ggagctcccc acaccaagtg agaatagcat gccaccaggc ctctcaactc 420
ccacagcctc gcaggagggg gccggtcctg ttccagatcc cagccagccc acccgtcggc 480
agatccgcct ctccagcccg gagcgcagc ggttgtcctc ccttaacctt acccctgacc 540
cggaaatgga gctccacccc aagcctcccc gcagctgtc cgccttggcc cgcacgccc 600
tggagagcag ctttgtgggc tggggcctgc cagtccagag ccctcaagct cttgtggcca 660
tggagaagga ggaaaaagag agtcccttct ccagtgaaga ggaagaagaa gatgtgcctt 720
tggactcaga tgtggaacag gcctgcaga cctttgccaa gacctcaggc accatgaata 780
actaccaaac atggcgctcg actctgctgc gccgtgcgaa ggaggaggag atgaagaggt 840
tctgcaaggc ccagaccatc caacggcgac taaatgagat tgaggctgcc ttgaggggagc 900
tagaggccga gggcgtgaag ctggagctgg ccttgaggcg ccagagcagt tcccagaac 960
agcaaaagaa actatgggta ggacagctgc tacagctcgt tgacaagaaa aacagcctgg 1020
tggctgagga ggccgagctc atgatcacgg tgcaggaatt gaatctggag gagaaacagt 1080
ggcagctgga ccaggagcta cgaggctaca tgaaccggga agaaaacct aagacagctg 1140
ctgatcggca ggctgaggac caggctcctg ggaagctggg ggatttgggt aaccagagag 1200
atgccctcat ccgcttccag gaggagcgca ggctcagcga gctggccttg gggacagggg 1260
cccagggcta gacgaggggt ggccgtctgc tttcgttccc acaaagaaag cacctcacc 1320
cagcacagtg ccaccctgt tcatctgggc tgccctggcag agagccttgc tgtttacaat 1380
taaaatgttt ctgccacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1439

```

<210> 2047

1309

<211> 586
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (576)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (584)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (585)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (586)
 <223> n equals a,t,g, or c

<400> 2047
 cctgcaggta ccgggtccgga attccccgggt cgacccacgc gtccggaaga atttaaactw 60
 agagaatgat taataaagtg gaaaatatcc aaagagtgtg aaataatttg gggagaaaagt 120
 tgcaaaatgt ggagttttctt tacaacaaat attttccagtc catcagatgt ctacatgttt 180
 tatgatctaa aataccagac aatgggtctgt gatatcatgg gactaccatt agcccagaaa 240
 aggttgcttc tttcatctgc ttgcctaata accatagggt ggtcattact ttctctgaac 300
 ttttattttt tcataattct gggttgctata agactcaaga gagaatgcac atgggaaaagg 360
 atttttaaaaa ctgatcaatc tgtaaaatgt catgtatttg aaaagataaa gtaaaattca 420
 taccagtatc ctaagtctcc actaaatgat aaaaaccgta cataattatg tctgttgatt 480
 cccatagtaa ccatatgaaa cagatattat tcctatctca aatttaggga taaaaaccag 540
 taggactgag gacattaagt aaattatcac agctcncsgg gggnnn 586

<210> 2048
 <211> 895
 <212> DNA
 <213> Homo sapiens

<400> 2048
 gcctgcagggt accgggtccgg aattccccggg tcgacccacg cgtccgcgaa aaatcagttk 60
 gcaatatata gtgtgggaac tgtactgtga tcattggcta accaagatgg gtgacagttt 120
 atgatattcaa agactcaaag gcggcttgag tcctacaatg tcctactcat aaaaatggaa 180
 agcatggcag cctcagggtt ttacagagta ctctactcca aagtaaaaagt tattctctga 240
 gaaagtgcct actgcctttt ctgttctcta gtttgcttgt ttaaacattt actccacaaa 300
 attgctcaaa cttacccatc tttgaatatc tagcctcttg gatgagacag atgatctttc 360
 tccgtttttc ctttttatag aatacagcta cctacccagg caatatgaag attttatttg 420
 tagaacctgc cattttcctt agtgcatttg ctatgacttt gaccggtcca ctgacaacgc 480
 aatatgttta tcggagaata tgggaagaaa ctggcaacta cactttttca tctgatagca 540

1310

```
atattttctga gtgtgaaaaa aacaaaagca gccaattttt tgcattccag gaggtaagaa 600
attacaatat ccatagtatt taataaaatg ggaatgtata ccgggctttg agtcaaagag 660
gaccgtgaac tcatcatcca ttggtctctc tagggcgggc atcaaagtcc taaatcccaa 720
acctaattggc ctttactggg aactcacctc atttgaagtt tcctgacacc tttcaaattc 780
gcctcttctt cttaaaacac cctcctgctc tgtgacacta gctcttctcc tttctctcgg 840
aaaaattcac cacagtgtca tctcttctgt ggctgtctcc ttgctttgtc ctaaa 895
```

<210> 2049

<211> 143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<400> 2049

```
tttatgatat ggaattcaat acaccccttc agtgggtataa agacattcct ggatttcttt 60
aggatagggt cagagttggt ttactatctg gccttcagtt tttaaaaggg gcgattcttt 120
gatatagcan tagcgtcaat ttt 143
```

<210> 2050

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<400> 2050

```
gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgktct gcaggaattc 60
atatgatgcc gccggtcaac tcgacaagct ttacgtgacg gggctatagc tcagctggga 120
gagcgcttgc atggcatgca agaggtcagc ggttcgatcc cgcttagctc caccaaattt 180
```

1311

tgcacccagc aaacttggtg cgtaaacgca tcgtggggct atagctcagc tgggagagcg 240
cttgcattggc atgcaagagg tcagcgggtc gatcccgctt agctccacca aatttccaac 300
cctcgctgca aagsgggggt tttttgtctc tgctttttgc cgcttttgta atacagtcta 360
cgtccggggtt agtgccgcct ggtgaaagca tcattggatg aaaaatcggc aacaggctgg 420
ccccctgttt gcttcgcat gcgaataaac ttattatttg tgtgcctgaa aaccccgatc 480
agtgaagata gtgtactcat gtttgtggag cataacctga taaaaaatat caagatattc 540
acactagcgt ttacgctcac cgtgtmcggg ggnnnn 576

<210> 2051

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<400> 2051

gagctccacc gcggtggcgg ccgctctaga actagtggat cccccggtct gcaggaattc 60
ggcacgagta acaaacctta cttttgttta aggtgctttt tctggctctc tgccattaag 120
atctacattt tccacctgtt ctctcttagg acctgagggg tatctctttg atatgcaa 180
gccagggaga ttactcacca gaagaagaag aagaaataga gctaattgga aattgagcaa 240
ataaaaaaat cttgtttttt ctcccagaaa cagtgaaaag ctttagccat ctttagata 300
atcttaactt gttccatctg ccagaaacac aatttggatt cagaaattct ttatgaactg 360
tttttgtatt attgtacctg gcacatggct acagttttca aatgaaaact gtgaaatctg 420
cttctgtctg tattttatgt atgtctgtgt atgcatgtat gtgtaatat tttctacctc 480
tagagactat cctaaaatta acttataaag agctgtattt aattgcctta aagaaaaagc 540
acttatacaa attaagtatt ttttaaacyc gggggggnnn 580

<210> 2052

<211> 571

<212> DNA

<213> Homo sapiens

<220>

1312

<221> misc feature
 <222> (487)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (561)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (571)
 <223> n equals a,t,g, or c

<400> 2052
 gcggccgctc tagaactagt ggatcccccg ggctgcagga attcggcacg wtggagaaaag 60
 ctcccagtga ggaactggtc ttctggagac tctgtgtggc atagagtgat tcaaccacct 120
 taagaagacc tctggctttc ctggaacaca gatgtcgaga catctcccat ggatttgtga 180
 tcagcgttgc agctctccca gcagccctgg acgggtgactc tcctctcttg gaatgcatcc 240
 tgaagcagct gaaaagggtt gccccgggcc cagcagggag caaaatcttg tgatattgct 300
 tctgaacatc ccacatgtgc cacacacgtg cccccccca cacacacaca tgcacactca 360
 catgcacact cacatgcaca ctcacatgca cactcacatg cacactcaca tgcacactca 420
 catgcacact cacatgcaca ctcacatgca cacacagcct ggactctgtt ccccttatgc 480
 ccctggnacc acactccatc aaagccattg acctttatat ccccntgtgt cttcagtaag 540
 aaggtatatc aggccagacc nccggggggg n 571

<210> 2053
 <211> 807
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<400> 2053
 gagctccacc gcggtggcgg ccgctctaga actagtggat cccccgggct gcagganttc 60
 ggcacgagct cgtgccgaat tcggcacgag aaaagatatt gtatatgaac ttcaactcta 120
 caactcagta aatggaactg tgatcaggag aataaggaaa tgttcagtgt attacttggg 180
 ggttgtaatc aatggaaaca ctaaaaacat aaaatatgca tgcactatgc ttccttaaag 240
 taaaattttc ctttaccagg aggagaaaag caaagagtag caattgcaag agccattttg 300
 aaggaccccc cagtcatact ctatgatgaa gctacttcat cgtttagattc gattactgaa 360
 gagactattc ttggtgccat gaaggatgtg gtcaaacaca gaacttctat tttcattgca 420
 cacagattgt caacagtggg tgatgcagat gaaatcattg tcttggatca gggtaaggta 480
 gccgaacgtg gtacccacca tggtttgctt gctaaccctc atagtatcta ttcagaaatg 540

1313

```

tggcatacac agagcagccg tgtgcagaac catgataacc ccaaattggga agcaaagaaa 600
gaaaatatat ccaaagagga ggaaagaaag aaactacaag aagaaattgt caatagtgtg 660
aaaggctgtg gaaactgttc gtgctaagtc acataagaca ttttcttttt ttgttgtttt 720
ggactacata tttgcaactga agcagaattg ttttattaaa aaaatcatac attcccaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaa 807

```

<210> 2054

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 2054

```

cccatcctga tccaagtgcc cttattcaag gtgttgetga tattttgncc ttcactgccc 60
actcatartg argcaaatta ycattttctg kgaacacagc tcagattttg gctggaatgg 120
ctatggctta tgcagtggca acttcttgtt gtagtcttwt tgcaaactct gattcttcag 180
caatatcaac gttttaacat gctcacctca gcaaaaagtta agacagctgt aaatggactg 240
atctacaaaa aggccctact tttatcaaat gtttctcrac aaaagttttc cactgggggaa 300
attattaaact tgatgtcagc aactcatgga cttgacagca aacctcaatc tcctctgggc 360
tgccccctttt caaatcctaa tggccgtata tctccttttg caagagctgg gtccagcagt 420
gttagcaggg gtggcagtc ttgtgtttgt tataccaata aatgcttttag ctgcaactaa 480
aataaaaaaag ttaaaagggt ccctggcaac cttgtgtgtc tatttcttac tggatgaagg 540
aaacattttta acagccacta aagtgttcac atcgatgtct ttgtttaata ttttaaggat 600
tcctctgttt gagttaccaa ccgtgatctc agctgtgggc cagacaaaaga tatccctggg 660
ccgttttgaa gactttctca aactgagga gcttcttcct caaagtattg aaacgaacta 720
tacaggagat catgctattg ggtttacaga tgcttctttc tcctgggata aaacaggaat 780
gccagttcta aaagaggctc tgtggcctat gkttctcaac aagcctggat tcaaaattgc 840
cgg 843

```

<210> 2055

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2055

```

gcctgcaggt accggtccgg aattcccggg tcgaccacag cgtccggcca aatgctatca 60
tgaacgtagg aaacttgatt tttttgtttt gatcatggcc tctacatgca cttttccaga 120
gtggtctctt ctccaggcct ttttagtccc tttccaaagc tgccccacc accctgctcc 180
tctggcctca gtgcacagtg gccccagcc tcggccaggc ctgctctgct cagcgccac 240
cgcccaccac cctcctgtct tccccagcc tgaccctgtt ccgcccactg gcaatcaggg 300
ctgcgcactt cctgtccac ggtccccagg ccttctgtc ttgtcccttt tgatcattat 360
taactcaggg tttcagctcc aacctcgtg agttggtgca gctccaggtc attcctgggg 420
tggaatcgg atcatccctg actcagcttw taccttaatt ttatttgcag aggattcttt 480
tctcaaaatg ctctggcatt tggacacaca tcacatgtcg atatttgc ataggatcatt 540
ttcagtggaa taacattttt aatgtgtggt tttacggttc aaggaactac ttgatgattt 600
tgaggaaaca cttgccagaa actaaattaa cgaataaaaag atttcagtgc ccgaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720

```

1314

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa

753

<210> 2056

<211> 4016

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 2056

```

cngacactat ntaaggtacg cctgcaggtg accggtaccg gaattcccgg gtacgaccca 60
cgcgtccggt tctgaagcaa tgtaatcct actagccaag catatcactt agtccccact 120
gtgagatgag ggatatgtgc ttaaattgtg aaacaaatat atgagtcagg tatttttccct 180
ttgagtccaa gtggtttatg actttctttc ctgtgttctt tgtatatgtg ggagttttat 240
aattttttat caagaatgaa aggttggcct gtgttcttac tgggtgcaggc tgtcacattt 300
ctctctgttg ccagtcagg tgctatggca tgtgtctgctt ctggcgtagt gtactctgtg 360
gatgtaccag catgttcttc aaggtcatga ctgattttcc agacctttgg aattgagata 420
aatgttaaat ttgtagctat ctctgaattt cttccagata cttttcttca tttgtttgtt 480
tgtagggtaa acatacctga tagcagcaat ttaagcatat ccttagaatg accatgtatg 540
gccagtgcac ctgaatgtgt gttccaaggt agggaaatcca ggaatggcca actcggagat 600
tcattcctta ctatgataaa tatctgagcc ccctgctcat cctgtggaac atgggcttat 660
tggggattaa ggccctgagt tttagggttaa atgaagggtta ccagatggag gtcattagggt 720
ggaggggtgt aaatgaaaat gctttataaa ctgcatgctg tttgcaagca gttgcagttt 780
tcctgcccag cccgcagcca ctggccatgc agtcatgttg tccagcctgc cgccactgga 840
ccatttctgt acataaggca gttctcctgt ccgcctgcca ccagttctcc actctctccc 900
catatgtaag ccctagtaa accccatgtc tcatttgctg cctctgggtc ttttcttcag 960
cctcttgaa ctagtgccct ccctgctgag gttaatatagg gtacagcaca acagtgttgt 1020
aacacagaaa gtgatattta cagggatata tctctcaca tatctcttag gaaaggtaaa 1080
taaaatgttc acaacttgta ggtgagtaat tccttagata agttgtttct taacttggga 1140
ggagtttggg aaggaacctt agcaggctgc agaggctggg catgggagct tgtcatggct 1200
ggaagttgaa atggtcaact ccaggcagat ctccctggggc aaagcagcct ccaccaccag 1260
tagcccttcc tttctgttgc tttcatagcc ccaactgctc atctgaagcc tgaaccctt 1320
ccagaaaatt gatggataga tttttttttt cggctatata tagttttaga ggttagaact 1380
agatataatt tcaagtctag aagatttctc cttccccaga aatgattggt ttttgtgcag 1440
aggccccgtc aaaatagtac cgggagactt agactgagtt cactcatcac taacaattaa 1500
ctttataaac attcaacaag taggacaact attattactg ttactcagaa cccttcgctc 1560
tgtatataca gtttgattta agatgccaca ttacatggc attttcaacc ttcaaactct 1620
agcagatttt aaaactaggt ggatgaaaat agaatacttc taataaatgt agtgtgtcag 1680
atgtgaaaaa tcatttggtg agcaggatct ctgtaaaagt atatgggcca cgtatacaag 1740
acgtaactga agaaaattaa ttcaacagag catgccgtac ttgaacgaca tagagattta 1800
ctcgaactga actaactcaa gctgcagaac tccgagcaag cctggattgt aaagtctggg 1860
tgaaaaataga tggagtatgc ctgactgaac ctctgtactg ccccatgc tatacagggt 1920
ggggattgga tggctgttag gtgatcattg cattctcttt tggatcccta ttgagaagaa 1980

```

1315

```

atgataagag agggaaagga tatggggcaa gaacagtctg aaaaagaaag gataaagttc 2040
tcagactctc ttcacactct aagaagaact ttctgaaaag cttggattag gtctggcaat 2100
ggatataata agcaaaggac tcttggaaatg tgttcttggc tcttagcccc acctctgact 2160
ttgagcaaat cagctgattt ctctgcctgt aaaataatag tccctctgat attaatactt 2220
acctcatgag gttattttaga ggatagtgtt ggtaataatg ccttgtgttt acatcattcc 2280
tttcacagag agctcaaagc actttacatg cattgagaga gaagcttctc gtgaagagta 2340
aatagaagtg ttcactttttt ggaaatgaac ttagggccata agagcctgaa tttaatgcat 2400
tgcaggaaga aatatggtac atagtgatcc agtgggtcaa ctgaattttt tgttccacta 2460
agagtccccct cctggctccg tgttttgaaa attaaaggaga aataagagtg agtccctaca 2520
cctggatggg aaatcccaca tatgcaattg gaatggtctc tcacgacaca tgcagagatt 2580
gaagaacagt ctggacattt tttgataacg ttctttgggc cttggtagta gctgaaagac 2640
acctgagaaa tcttagctca gagctacaga atgacactaa tggatcccag aaatagaaat 2700
gtagatgtgg agtgttttat ctgtttattt cacctcaatt caaccaatac tccttgagtg 2760
ccttttatac acatgatttt gagtgatgtg gagaattaaa agagcacaac atgctcagga 2820
aagttaaccc tggatttagc aaggaaaaga agtaggattt ccaaatagat aagtgcaccg 2880
ggtatgtgga agttcagaaa agcatcacag tacttcagca catctacttg ggcaatctca 2940
aacatgtatt actcatgtac caagcagtat gctgttcaca gagagatcca atctctgcct 3000
tagggatcct tggggaaaac atgtacaaaag agatagtttt agcacattct agtaaaggca 3060
gtgatcaagg gcacctagcc ttacgtggca atttagggaa ggtaccttgg aggatgagac 3120
ttctcctaaa gtcttaagaa ttgaaaagaa catgggaagg gaattccagg ctgggagagt 3180
agtatgttca tacgccctca gtgtttaacc ttctttgaac aaaaaaatgg ccaactacag 3240
aaagtttggg cttattgtag cctaaattgt acttaggggt acgagtgaga aaaagggatt 3300
aagataaagg acctgttttg ctgtcttggt tactgttgaa tagtagtatg aagtaggtcc 3360
tgaaaaacta tgtttttggg gaaaaaaaaa aaaaaagact gaatgatatg ttgggtttta 3420
gtccttgagc gcaggctatc caggtaaata aacatggaag gtgatgggag gtaatctggg 3480
ctggaaatac agatttggaa gtcaccccat atcagtgggtg tttaaaatca agagcaaatg 3540
aaattgcaca aggagaatat atagaatgaa caaattacca tgggtgaagc cttgagtaat 3600
acagacattt aagaagcaaa caaaagacaa ggaacccatg agggagactg gaaaggaaaa 3660
aacagagaaa taagaaaaaa tgagaggaga gaattgatac attttcctca ggtgtggcat 3720
tatggagttc actggtgtct catcagagaa gtttcagtcc agtggccagg gcagaatgac 3780
attgtgtctt gttttaaagt aaatgggtag ggtaagaaaag ttgagaaggg ttagcacaaa 3840
cctctctttc aagtcacttg ccttagaaga gaaggaaggg tatggtttct ggggtgcaac 3900
ccaggttcaa gaagcaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg 3960
ggccccagct tacgcgtgca tgcgacgtca tagctctctc cctatagtga gtcgta 4016

```

<210> 2057

<211> 587

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<220>

1316

<221> misc feature
 <222> (541)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<400> 2057
 agctggtacg cctgcaggta ccggtccgga attcccgggt cgacccaacgc gtccggaaca 60
 gggaaaagaaa gggacagaga tggaaaatcc tattttattg ttttgacttt agacatccag 120
 aaagggttac taactttaaa acttttaaata aagttgccct gtgttgggga agaaatctgg 180
 caatcctagt tactttgaag tcacgctacc ctttttact agagtctccc tgaccaaga 240
 gaacagggaa gggccggtag gatacacata acagtagctc cttttacttg gctggattta 300
 ggtatgccag gagcaggggtg cagtattagg ccagaaatct ctggttgtct ctgcttgccct 360
 ctcatgtcta atgtggtcag ctctccttga ctgtagacca tccagccaaa tccaagctct 420
 gcttttctct tttggactca ggacccatta aactcagtaa cctcattaaa ttctgcctgc 480
 acatttctcc tttcttttct tttctttttt ttttttgaga ccatgtctca aaaaanaaan 540
 nnaaaatata tatatatata gagagagcga gccgagagag agagaga 587

<210> 2058
 <211> 1063
 <212> DNA
 <213> Homo sapiens

<400> 2058
 ggcggaatgt tcaactccta actgcggcgg aaacgtggga gccgcgcggg ccgctgtcgt 60
 cccaaccccc gccgcctcgt tcgcgcgcgg ggcctccgcg cccccggctg ctgctcacgc 120
 cccgccggg agccagattt tgtggaagta taatactttg tcattatgag atgtcgtctc 180
 tcggtgcctc ctttgtgcaa attaaatttg atgacttgca gttttttgaa aactgcgggtg 240
 gaggaagttt tgggagtgtt tatcgagcca aatggatatc acaggacaag gaggtggctg 300
 taaagaagct cctcaaaata gagaaagagg cagaaatact cagtgtcctc agtcacagaa 360
 acatcatcca gttttatgga gtaattcttg aacctcccaa ctatggcatt gtcacagaat 420
 atgcttctct gggatcactc tatgattaca ttaacagtaa cagaagtgag gagatggata 480
 tggatcacat tatgacctgg gccactgatg tagccaaagg aatgcattat ttacatatgg 540
 aggctcctgt caaggtgatt cacagagacc tcaagtcaag aaacgttggt atagctgctg 600
 atggagtatt gaagatctgt gacttttggt cctctcgggt ccataaccat acaacacaca 660
 tgtccttggt tggaaacttt ccattggatgg ctccagaagt tatccagagt ctccctgtgt 720
 cagaaacttg tgacacatat tcctatgggt tggttctctg ggagatgcta acaagggagg 780
 tcccccttaa aggtttggaa ggattacaag tagcttggct tgtagtggaa aaaaacgaga 840
 gattaacat tccaagcagt tgccccagaa gttttgctga actgttacat cagtgttggg 900
 aagctgatgc caagaaacgg ccatcattca agcaaatcat ttcaatcctg gagtccatgt 960
 caaatgacac gagccttctg acaagtgtaa ctcatccta cacaacaagg cggagtggar 1020
 gtgcsaaatt gaggcaactc ttgagaggct aaagaaacta gag 1063

<210> 2059
 <211> 2716
 <212> DNA
 <213> Homo sapiens

1317

<400> 2059

```

tcgacccacg cgtccgcgga cgcgtggggt ttttgaaaat atgcagaaat ttgtggtaat 60
tatgtatttg tgtcttgtga caattatggt ttatagacct acactagtgc caggtcacta 120
ttgtaagatg ttaaaatctc aagaaaatth cacagagcta aagaaatgat gtcaaattag 180
tcacattaag ctatagtaga aggaattgga cacttctcca gatatttggc ttcaaaggag 240
tacctttact tacatgtgct ttatggtaag tacattgaat tttactttta atgcatttta 300
ctacaaagca caattcattt gtaatgcata tccatcttgg attcaatcca aggtgcttta 360
gctatcagta gtaccaaagg atctttttac aaggcttcct gtggatttga ctctgagaat 420
aacacatagt gaagatctgt gggcttttaa aattgttcac agccaattta agaagacccc 480
tcatgaagtc tcagttttca gtacagtaca tcattcctcc tcactaggag cactttgatg 540
taaaccagaa tagcttttaa aagacaaaaa ggatcgtaga tctgattttt aaatggttgg 600
ttgctctgac agatctgaac actttgcttc atgactatth cgtcataaag gtatatgttt 660
aaaatctgaa tggcagtact agctctatac ttttaatact gctttgtatt ttatatgtaa 720
agtagtattg ctgacatttt aaaaaaatac aaaatacaaa agaaaccatt agaaattaat 780
aactgtggct cttccagttg aaataggaat tggagagaaa ggattagaat attttaatta 840
ggggagtaga ttattgtcca aaggctttta tttagagaaa cgggtaatta aaacagcagc 900
tttagaatag cttcttactg aatatgcaaa agaataattc cttgttattt cctaattgat 960
ccaagtctca taaatttagc ttttgtcata attccttacc gaaaacaact gaaattgaga 1020
gtcataaata ctgtgggtta gaataaaaac catttgccaa agcaacactc tacttagaag 1080
cacatgtaca tacatggacc tcattcagaa gtccatgttg tagcagttag aatttgarta 1140
tcagccattt cattgtagta acaaaaattg aattgcattt tgtgctcagt tgtttattgt 1200
aattttattt ttgttacatt aatattagtt aagatatggt cacttgaatt ttttgtattt 1260
aagaattttc tgttttaatg catgttatac ttttatgtag gattccaaac cttccctcta 1320
aatgggattt aaccacatc tgcgagatca gcgttatgct aagaggaaat cactgaggcc 1380
atatcttttt acaatctgaa aaaaaagtag taaaaaggta gttaaaaaaa aaaaaggccg 1440
ggtggtggct catacctgta atcctagcac tttgggaggg caaggcaggg agatcacttg 1500
aggtcagggg ttcaaaacca gcctggccaa gatggtgaaa ccccatctct gctaaaaata 1560
caaaaaaaaa ttagccgggc atggtggcac gtgcctgtaa tcccagctac ttgggagact 1620
gaggcaggag aattgcttga acccgaggag cggagattgc agtgagccaa gatcacgccg 1680
ttgcactcca gcctgagcaa cagagcaaga ctccatctca aaaaaacaaa actactttca 1740
ttaattaccc attattttatt ttagttactt aatttttagt tcataaatgg ccaccctaatt 1800
ggaaagtttg ggtatgatct taggttttat ggagatgttt tcaatagaga ttatttttcc 1860
ctcaccctat ttgtgaatat ataaattaaa gtaagacaat ggagtaagta agagggtaga 1920
tccaaacaca gtatgtctaa attctagcac tctactggct gcttagaata caccaaacct 1980
ggaagacctt tccaagagta aaatcccagt ctgccactat caaaattgcc acagtcactt 2040
ttactacttg tgttcatagt agactcagca cttctttttc actggacctt gtataactga 2100
gaaataaata actgtgtgca aaatattggt atcattaagg acccagagct gcccatthttc 2160
tctttgttct aataggggaag caattactga tagaaatgtg agattaaaaa tagggctctc 2220
cctgctgctc caaacaaatg cctaaacaca gtatgtatct cagtccctctg ttcccagaga 2280
ttccacccta gcccaggaaa gaactggcct gtgtaaagca aaaccaagt catccccctc 2340
cagaaatttc tctggcagcc aagcctgacc ctaagggttc cactttgctt taaaagctag 2400
gagtggcctc tagagccagg aacacattaa tacaacagtt caacctcagc accaagtcag 2460
gtacgaagcg cttgatacgt ggaatttttc tctatatcaa gtttaaattt ctggaaatag 2520
actttggttg ctaatgacaa ttacagttat accatagtct gtaatttgag aaaagggtgaa 2580
atgtattttta tatatattta gttttaataa aaagataaaa ttattacaga aataattgag 2640
agagagaaaa tctattataa tttatttgaa aaataaaaca ttttatccag taaaaaaaaa 2700
aaaaaaaaagg gcggcc 2716

```

<210> 2060

<211> 2013

<212> DNA

1318

<213> Homo sapiens

<400> 2060

```
cttccggctg gcggtgagtg gggagtggga tccgatcccc tggggctatg taggggaagt 60
tgggtggctgc agctgccgtg gttttctcct ggtgtccagc agaaacggcg gcggcgcaag 120
gtgtggctgg gccaaaccag gatctcccag gaccctccgc tctgcgcgac aaggggcccc 180
cgcttgccaa ggccgacggg caggagtga cgtggcctcc gtgggtctgc agccccgata 240
ggccaattgt acagaattta aaccgtctct cagatgtgta cagtagaact caagaagaca 300
gactaccaag ggtcatctga agtcgtgatt gggtcactaa taacaccagg acaaagttaa 360
gggatcacta ctcaagcata agccccagtt ttcataagac tgctgtgaag atgtttgata 420
taaaggcttg ggctgagtat gttgtggaat gggctgcaaa ggacccttat ggcttcctta 480
caaccgttat tttggccctt actccactgt tcctagcaag tgctgtactg tcttggaaat 540
tggccaagat gattgaggcc agggagaagg agcaaaaagaa gaagcaaaaa cgccaagaaa 600
acattgcaaa agctaaacga ctaaaaaagg attgaaggac tgaacaggct ttgcaaccag 660
aggaaaatca tttggaaaat tacacagctt tggaagaatc cactaaagtt tcttcttttg 720
atttcttgac agtatgattt agtaaatgaa atttgaccaa atggaagaat catgttagtt 780
ctgacctcaa tactatagta acttttaggc gtgggtgtag aagtttatag gtttctattg 840
acagttattg taaattagca tttactgttg tacaaattct ttataactga cttagtcatt 900
tgccgcttag cagtttatat actgaaatga aaacatcttg tggggaaaaag tgactttaga 960
ttatgaactc aattcaaagt aactctattt aaaatggggt cctattttgg acaaaggaaa 1020
ttaagaatgt aaaagtcaga acagtcttga ggtaaaaagt gtgctttggc ttaaaaggga 1080
tacagtatat taattacatc ttttattatt attgkttatt tcttagaatc atttctggct 1140
ttctcaaaac aaaataatat taatgagtac ttctatttgc tgcatttttc ttattacagc 1200
ctttgagaca gctggtaatt ataagtcatt ttccattttt taaaacataa ttttataaag 1260
aattctctta tctcgactat gtagaatacc acctactgga cagaacaatt tttgtactca 1320
caaacactgc cattttctta gagatggcct gagaggagta acactatggg ttaaaagcttg 1380
cagtaaaaat gccaaacact gtagtacctt ggaaccaggt ttattcttgt gctaagcaga 1440
actgtaaaat agttaaaatg tcttatcaag taattcgccg attacaaaga caccatttgt 1500
tttttatttc attctttgtt ttaactcatg tggtagtgat atttaatact ttctgatcaa 1560
acaggttcaa agtaaaacgt taaatttcac atttctttta aagaactctt aaagtgtaac 1620
agttacgcca tacttcataa gtggtaaaga aaggataaaa atttggaac attttgttgg 1680
gcatagtagt gattgggtga aaaggataaa ttatatcaaa atgagaatgt gctgtaattg 1740
gaagtaggga gctaaaggat gtttctttca gtttagtaga actggaacgt tttactatta 1800
aacatggcct ttataaatgc atggccaat aattttattc actgttagta ttttaattcac 1860
tgtcagctta ttaatgtttt ctgtacccat taatgaattt taaattacaa aaaattgtct 1920
agcagctaca gtttaaaaaat gaaactagac attaaaataa atttgataat tttttataaa 1980
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2013
```

<210> 2061

<211> 2595

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2456)

1319

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2507)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2593)

<223> n equals a,t,g, or c

<400> 2061

```

ggcatcccta atctgaaaat ccaagattaa atgctccaat tagcatttcc tttgagcgtc 60
atgttagagt tcaaaaagtt tcagatttttg ggttttcaga ttaggaatac ccaacctgta 120
tgtacgtata tttctgtatc tatgtatgta tatatatgca tatgcagaca tatgtatatg 180
gtctggtcag catatgtgta tgtatgcgta tgtatgtatg tatgtatgcc ctacgtgcag 240
tggggtttgc tgcagaattc actgcatagc aggagatgta agcagatgag ttatttttta 300
agagaatcta atctaattgt ttttataaaa attattccct attgaatatt tatataatga 360
ggttgtatca acaatgatta actcctttat tatacataca catgaatgtg cattttttgg 420
aaatgcataa atgagattct ataatgttta ctgatcttta tattacagat tttctcttct 480
tttaggatta gctcagcttg ccccccttt ccactctccac catctatagt gagcctctcc 540
ataattagtg ccaaccatta gtctcgttca tattttttaca ccaggagtca acaaactgtg 600
gccattggcc aaatatggcc tcccaactgt ttttttaaaa taaagtttta ttggaacaca 660
gccatgttca tttggacatg tattgtcttg gcttcttttg tgctgcactg gcagaattga 720
gtagtttttg cggagatcaa atagccccc agctggaaac tgaaaatata tactctctgg 780
ctctttacag aaaatgtttg ccagcacatg atacacacac aaacacacac acatacacac 840
atattactat gttcatcatc atatacctgt gtaagtactc tttcattgat ttataaaact 900
cagatctctt acgtgtgttg atgggtat tttcattcta caatccatga tggattgtac 960
acacgtgtat tctatgaggt tgacctgcca taattttatt agccatttnc cacagttttt 1020
gattacttat ttctcccca cacacatttt ttgctaaaaa acggagaggg aactgttatc 1080

```


1320

```

aatacttccg agaagcagac cagcataatc ttttaagtgc acaggcccag gagccagggtt 1140
cctgcatttg attcctggct ccactctcta cctctgcat ctgctgagca agttatttgg 1200
tctcatctat tctggtttct catctacaaa agggagatga tgatagtacc ctacccccat 1260
gcatttggtg tgagaagtgt gtgtgtgtta aacccttgga actgcatgga cagaycaagt 1320
gctgatgaat tttaregggc ctcgtatccc tgagcctgcc tggttccctt gtgctgggtg 1380
tgggactgtg gtgggagatt tctgtcagct ggaagtcttt tccagaaggg tgtagagat 1440
gggcacccat ggctttagtc tccatacccc ttcaagggtg ataggggccc acacagctgg 1500
tcaggaacca gcacagacct caggctgtgt ctaaaacaag gtgactgcac atgcaggagc 1560
ctgtgctggg ccctggagag caaatctgtt ctgtgtctca ctggcctctc cctgtccagg 1620
ggcgtagtat cagtgacct gtcccacctc ctgagaaagg tggagagtc tcacctgggg 1680
agtccaggta caagggtgg ccggccgtag atgactgggtg tggggtggaa aggctgcaga 1740
ggcctctcca tgggtggtgag ggggtggaaat agtgtgcacc tgggtcctgg gagtggcacc 1800
ctgaccagtt tcagggagga aggtggcagg gccctaggac aagtgtgtta aaaacttgag 1860
cccacagtgt agacacactg gttccaaaga cccctcagga tgtgcctccc ttctcagatc 1920
tgggctttcc ctgttcctaa gcatcacctg gggggatcac tctgggtcct catctccagc 1980
cacatgttca ctccctcacgt gggcctccct aactgtcccc ctcaggggcaa gcccttcctc 2040
cccacttcca gaaagctgct cgttccctgg ccatcccaca cctctgacct cgtgccactt 2100
ccggggcctg ttggcttttaa caacttagtt tcctccctac ctgcgaacct cctctgtcta 2160
gagtgtcac ctccctccca gcctctgtct catactatct tttctttcct ctcaagtacc 2220
aagcgtggg acaagccagt ctgtactcaa tgctgtggg ataatagacg gaggaatctg 2280
gagtttggtt ggggtgattaa gctttggaat tgatgggtcc caggagacta tctaaagttt 2340
tcaagtcaca tgagggcagt ctcacagatc tgtgaaaaga tctgggtggc cagagaacta 2400
agagatgaat aaatggtaag tccaatggcc tcatcatgag atgagaggca agaagntttg 2460
aggttncaga nggagaagct actattctag gcaacttgga tgaactnact cgtttaattc 2520
tcacaagcat tgnanggaaa taatctaacc tcataaacc catttttagag gatgagggaa 2580
caaggcttag agnaa 2595

```

<210> 2062

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<400> 2062

```

ggtacatttg tatattatca aaatgttctt attgtaacaa cttaactaat actaaaatgg 60
ataaaggaaa agtcaatctc ctggtagtac cctccattc ttaacctctg aagtaacttg 120
tgtaaagtga caattgtgta tcttactgat atacaacttt ttactgtca tacaacatc 180
cccaagggtg tttgtttctg aaaatattac agcattgata ttctgcacat tccgtagctt 240
gctttaatca ctcaatatgt tataaacacc cttcgtgtt aatagaaata atactaactc 300
atccttttta ataaccaaaag tatggktata tcataatcta ttataccatt caaatgttac 360
ttccagtttt gggggatttt ttttttttgg tctttttgct gttgktgttc attttttact 420
attccaaaaa tgcttcaaca aatattcttt tacagattga atgttgctta tccaaaatac 480
ttgggaccag aagtcttggg gatttctgat ttccagatta gggatgntca mcctgtatat 540
acctccttac acac 554

```

<210> 2063

<211> 1848

1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1822)

<223> n equals a,t,g, or c

<400> 2063

```

gggaaccgcc ggctgtgggg ttggaaccgc cggtgtgtgag tttcctcact gcttggagga 60
agatgagaat tctcagaggt ccttatgctg cccttttttg tgcagtcttg acatcttaac 120
gtggatagaa aaaggccgtg cagcatcgaa gacaggagga actggagcct cattggccgg 180
cccggggctg cgccctcggg cttaaataag agctccgggc tctggctggg acccgaccgc 240
tgccggccgc gctcccgtg ctctgcccgt gtgatggaaa accccagccc ggccggccgc 300
ctgggcaagg ccctctgctg tctctctctg gccactctcg gcgccgccgg ccagcctctt 360
gggggagagt ccatctgttc cgccagagcc ccggccaaat acagcatcac cttcacgggc 420
aagtggagcc agacggcctt cccaagcag taccctctgt tccgcccccc tgcgcagtgg 480
tcttcgctgc tgggggcccgc gcatagctcc gactacagca tgtggaggaa gaaccagtac 540
gtcagtaacg ggctgcgcga ctttgccggg cgccggcgagg cctgggctgt gatgaaggag 600
atcgaggcgg cggggggagg gctgcagagc gtgcacgmgg tgttttcggc gcccgccgtc 660
cccagcggca ccgggagagc gtcggcgagg ctggagggtg agcgcaggca ctcgctgggtc 720
tcgtttgtgg tgcgcatcgt gccagcccc gactggttcg tgggcgtgga cagcctggac 780
ctgtgcgacg gggaccgttg gcgggaacag gcggcgctgg acctgtacct ctacgacgcc 840
gggacggaca gcggcttcac cttctctctc cccaacttcg ccaccatccc gcaggacacg 900
gtgaccgaga taacgtcctc ctctcccagc caccggcca actccttcta ctaccgcgg 960
ctgaaggcnc tgccctccat cgccagggtg aactgtstgc ggctgcgaca gagccccag 1020
gccttcatcc ctcccgcccc agtctgccc agcagggaca atgagattgt agacagcgcc 1080
tcagttccag aaacgccgct ggactgcgag gtctcctgtt ggtcgtcctg gggactgtgc 1140
ggaggccact gtgggaggct cgggaccaag agcaggactc gctacgtccg ggtccagccc 1200
gccaacaacg ggagcccctg ccccgagctc gaagaagagg ctgagtgcgt ccctgataac 1260
tgcttctaag accagagccc cgcagccctt ggggcccccc ggagccatgg ggtgtcgggg 1320
gctcctgtgc aggctcatgc tgcaggcggc cgagggcaca ggggggttct egctgctcct 1380
gaccgcgggt aggccgcgcc gaccatctct gactgaagg gccctctggt ggccggcacg 1440
ggcattggga aacagcctcc tcttttccca accttgcttc ttaggggccc ccgtgtccc 1500
tctgctctca gctcctcct cctgcaggat aaagtcatcc ccaaggctcc agctactcta 1560
aattatgtct cttataagt tattgctgct ccaggagatt gtccttcate gtccaggggc 1620
ctggctccca cgtggttgca gatacctcag acctggtgct ctaggctgtg ctgagcccac 1680
tctcccaggg gcgcatccaa gcgggggcca cttgagaagt gaataaatgg ggcggtttcg 1740
gaagcgtcag tgtttccatg ttatggatct ctctgcgttt gaataaagac tatctctgtt 1800
gtcamaaaaa aaaaaaaaaa anaaaaaaaa ttgggggggg gcccggtg 1848

```

<210> 2064

<211> 487

<212> DNA

<213> Homo sapiens

1322

<220>
<221> misc feature
<222> (464)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<400> 2064
ccggccccgcc tgccccgggca ccgggtccgga attccccgggt cgacccacgc gtccgccccac 60
gcgtccgccc acgcgtccgc ccacgcgtcc gctgtgtcgt aaaatggggg tcccttactg 120
cattatcaag ggaaaggcaa gactgggacg tctagtccac aggaagacct gcaccactgt 180
cgcttccaca caggtgaact cggaagacaa aggcgctttg gctaagctgg tggaagctat 240
caggaccaat tacaatgaca gatacgatga gatccgcgct cactgggggtg gcaatgtcct 300
gggtccctaag tctgtggctc gtatcgccaa gctcgaaaag gcaaaggcta aagaacttgc 360
cactaaactg ggttaaattgt acactgttga gttttctgta cataaaaaata attgaaataa 420
tacaaatttt ccttcaaaaa aaaaaaaaaa aaaaaaaaaa aaangggggg nccccgtanc 480
cnattgg 487

<210> 2065
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<400> 2065
ggcacgagga ggaaactaac gattccctgc ccacccccac acccagcacc accaacaggt 60
gggcaagctt gccgagaaaa cgcagagggc atcctgtgag cagcaaacac atctgagcct 120
ggaaaagacg cagagaagta aaagatcaaa gtctgattgg caccgggtcc cattccggct 180
ccagcctcca atccgacccc catttcgggt gcagcctcgg acctagctcc ggccctcgggt 240
ctatccgggtt gcatacctccc tccctgttcc ggatccttatc ttgcgccasg cctactccag 300
gatcccgtag ccagacctca agccatgggt ggtcccttct cccgtctgct gtccgcccgc 360
ccgggactca ggctcctggc tttggccgga gcgggggtctc tagccgctgg gtttctgctc 420
cgaccggaac ctgtacgagc tgccagtga cgacggagggc tgtatcccc gagcgctgag 480
taaccagaac ttccgaaagc acaacaattg catggccatc acttgancca gcatttatgc 540

1323

aaggtttggg aaagacaaac cattggtttg aagta

575

<210> 2066

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2066

```

cgacagaagg gtacggctgc cagaagacga cagaagggtta cggctgcgag aagacgacag 60
aagggtacgg ctgcgagaag acgacagaag ggggctcttc ctcgtttgcc ctcgtgttc 120
atgggagctc gttttctttt cctctaggca gagaagaggc gatggcggcg atggcatctc 180
tcggcgccct ggcgctgctc ctgctgtcca gcctctcccg ctgctcagcc gaggcctgcc 240
tggagcccca gatcaccctt tcctactaca ccacttctga cgctgtcatt tccactgaga 300
ccgtcttcat tgtggagatc tccctgacat gcaagaacag ggtccagaac atggctctct 360
atgctgacgt cgggtggaaaa caattccctg tcaactcgagg ccaggatgtg gggcgttatc 420
aggtgtcctg gagcctggac cacaagagcg cccacgcagg cacctatgag gttagattct 480
tcgacgagga gtcctacagc ctctcagga aggtcagag gaataacgag gacatttcca 540
tcatcccgcc tctgtttaca gtcagcgtgg accatcgggg cacttggaac gggccctggg 600
tgtccactga ggtgctggct gcggcgatcg gccttgtgat ctactacttg gccttcagtg 660
cgaagagcca catccaggcc tgagggcggc accccagccc tgcccttgct tccttcaata 720
aacatcacag gacctgggac tgcacaggaa aaaaaaaaaa aaactcgrgg ggggcccggg 780
acccaa                                           786

```

<210> 2067

<211> 2021

<212> DNA

<213> Homo sapiens

<400> 2067

```

gtccccgcg kceketctgc ttttgtggcg gcgcccgcgc tcgcaggcca ctctctgctg 60
tcgcccgtcc cgcgcgctcc tccgacccgc tccgctccgc tccgctcggc cccgcgccgc 120
ccgtcaacat gatccgctgc ggcctggcct gcgagcgcgt ccgctggatc ctgcccctgc 180
tcctactcag cgccatcgcc ttcgacatca tcgcgctggc cggccgcggc tggttgcagt 240
ctagcgacca cggccagacg tcctcgctgt ggtggaaatg ctccaagag ggcggcggca 300
gcgggtccta cgaggagggc tgtcagagcc tcatggagta cgcgtggggg agagcagcgg 360
ctgccatgct cttctgtggc ttcacatccc tggatgctg tttcatctc tccttcttcg 420
ccctctgtgg accccagatg cttgtcttcc tgagagtgat tggaggctc cttgccttgg 480
ctgctgtggt ccagatcatc tccctggtaa tttaccccg gaagtacacc cagaccttca 540
cccttcatgc caaccstgct gtcacttaca tctataactg ggcctacggc tttgggtggg 600
cagccacgat tatcctgaty ggctgtgcct tcttcttctg ctgcctcccc aactacgaag 660
atgaccttct gggcaatgcc aagcccagg acttctacac atctgcctaa cttgggaatg 720
aatgtgggag aaaatcgctg ctgctgagat ggactccaga agaagaaact gtttctccag 780
gcgactttga acccattttt tggcagtgtt catattatta aactagtcaa aaatgctaaa 840
ataatttggg agaaaatatt ttttaagtag tgttatagtt tcatgtttat cttttattat 900
gttttgtgaa gttgtgtctt ttcactaatt acctatacta tgccaatatt tccttatatc 960
tatccataac atttatacta catttgtaag agaatatgca cgtgaaactt aacactttat 1020
aaggtaaaaa tgaggtttcc aagatttaat aatctgatca agttcttgtt atttccaaat 1080
agaatggact cggctctgtta agggctaagg agaagaggaa gataagggtt aaagttgtta 1140
atgaccaaac attctaaaag aaatgcaaaa aaaaagttaa ttttcaagcc ttcgaactat 1200
ttaaggaaag caaaatcatt tcctaaatgc atatcatttg tgagaatttc tcattaatat 1260
cctgaatcat tcatttcagc taaggcttca tgttgactcg atatgtcatc taggaaagta 1320

```

1324

```

ctattttcatg gtccaaacct gttgccatag ttggttaaggc tttcctttta gtgtgaaata 1380
tttagatgaa atttttctctt ttaaagttct ttataggggt aggggtgtggg aaaatgctat 1440
attaataaat ctgtagtggt ttgtgtttat atgttcagaa ccagagtaga ctggattgaa 1500
agatggactg ggtctaattt atcatgactg atagatctgg ttaagttgtg tagtaaagca 1560
ttagggaggt cattcttgtc acaaaagtgc cactaaaaca gcctcaggag aataaatgac 1620
ttgcttttct aaatctcagg tttatctggg ctctatcata tagacaggct tctgatagtt 1680
tgcaactgta agcagaaacc tacatatagt taaaatcctg gtctttcttg gtaaacagat 1740
tttaaagtgc tgatataaaa catgccacag gagaattcgg ggatttgagt ttctctgaat 1800
agcatatata tgatgcatcg gataggatcat tatgattttt taccatttcg acttacataa 1860
tgaaaaccaa ttcattttta atatcagatt attattttgt aagttgtgga aaaagctaat 1920
tgtagttttc attatgaagt tttcccaata aaccagggtat tctaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaactcgt a 2021

```

<210> 2068

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<400> 2068

```

gggaatcttc atgggatcct acgggacttc tactcaccac tggtgccctga cagcatgaaa 60
tttgagattg gagaggctct ttacttgggc attatttctt ccctgttctc cctgatagct 120
ggaatcatcc tctgcttttc ctgctcatcc cagagaaaatc gctccaaacta ctacgatgcc 180
taccaagccc aacctcttgc cacaaggagc tctccaaggc ctggtcaacc tcccaaagtc 240
aagagtgagt tcaattccta cancc 265

```

<210> 2069

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

1325

<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<400> 2069
aaggaaattc ctcccaattn tccaatntcc cnaaagtggc tggggattna caggcgtgag 60
ccaaagntcc cagcctaggc ccttaatctt gctgttatatt tccatggact aaaggtcttg 120
tcattctgagc tcacgctggc tcacacagct ctaggggcct gctcctctaa ctcacagtgg 180
gttttgtgag gctctgtggc ccagagcaga cctgcatatc tgagcaaaaa tagcaaaagc 240
ctctctcagc ccaactggcct gaatctacac tggaagccaa cttgctggca cccccgctcc 300
ccaacccttc ttgcctgggt aggagaggct aaagatcacc ctaaattttac tcattctctct 360
agtgtgcct cactttgggc ctcagcagct cccagcacc aattcacagg tccccctct 420
cttcttgac tgtcccaaaa cttgctgtca attccgagat ctaattctccc cctacgctct 480
gccaggaatt ctttcagacc tcaactagcac aagcccgggt gctccttgtc aggagaattt 540
gtagatcatt ctcacttcaa attcctgggg ctgatacttc tctcatcttg caccccaacc 600
tctgtaaata gattttaccgc atttacggct gcattctgta agtgggcatg gtctcctaata 660
ggaggagtgt tcattgtata ataagttatt cacctgagta tgcaataaaag atgtgggtggc 720
cactctttca tgggtggtggc agcagttaaa aaaaaaaaaa aaaaaaaaact cgag 774

<210> 2070
<211> 2620
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2599)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1326

<222> (2609)

<223> n equals a,t,g, or c

<400> 2070

```

cggggggggg ggggaagatn aagcannaat ttacgtgaca ctatagaagg tacgcctgca 60
ggtaccggtc cgggaattccc gggtcgaccc acgcgtccgg ggtgtccgag ggccacaaga 120
gtatgacggg gctgtacgag ctgggtgtggc ggggtgctgca cgcgctgctc tgtctgcacc 180
gcacgctcac ctectggctc cgcgttcggt tcggcacctg gaactggatc tggcggcgct 240
gctgccgcgc cgectctgcc gcggctctag cgcgctcgg cttcacgctc cgcaagcccc 300
cggcagtcgg caggaaccgc cgtcaccacc ggcacccgcg cgggggggtcg tgcctggcag 360
ccgcacacca ccgatgcgc tggcgcgcgg acggctcgttc cttggagaag ctgcctgtgc 420
atatgggcct ggtgatcacc gaggtggagc aggaaccag cttctcggac atcgcgagcc 480
tcgtggtgtg gtgtatggcc gtgggcatct cctacattag cgtctacgac caccaaggta 540
ttttcaaaag aaataattcc agattgatgg atgaaatttt aaaacaacag caagaacttc 600
tgggcctaga ttgttcaaaa tactcaccag aatttgcaaa tagtaatgac aaagatgatc 660
aagtttttaa ttgccatttg gcagtgaagg tgctgtctgc cggaagatgg aaaagcagat 720
attgtaagag ctgctcagga cttttgccag tkagtagccc agaagcaaar gagaccaca 780
gatttggtat tagatacgtt agccagttta cttagttcaa atggttgctc tgatcctgat 840
ttagtaytga agttcgggtc tgtggacagc acaykaggct ttcttccctg gcacatcaga 900
ttgactgaga ttgtctcttt gccttccay ctaaaccatca gttatgagga ctttttctct 960
gcccttcgtc aatatgcagc ctgtgaacag cgtctgggaa agtagtggtc attggttgca 1020
taatttgatt tgaggcttgt ggaggaaagg aaccaagtga ctctgatgtt tacaaagcac 1080
ctatgaaacc ctgtacacac ctagttcata atcctcataa tttatcaaca aacacaaaaa 1140
agtgtcttac ttgagagtga gtgtgtgtgt gtgcgtgtgc acgtgcacac atgtgcacgt 1200
ttgtatgtat ggaaataaac ttataaatgg ggacgtattg gagaaggaaa tacatagacc 1260
tacaactttg agcaaatagc agtgatgttt taggaactga aatgtcacac ttaaagtctt 1320
cagcccagct acttccctat ttttgtgggg agaagagggc ctgattagaa ctgttctggt 1380
tgtgtttggc gggaggggaa taatttttgt tcagtccttc ttagtgacca aactttaatt 1440
tttaagaata atatattgac ttactgaact gaagcattct gagttgaaag gagctycaga 1500
ggagtggagt tctgtgttgc tcacatgtta aaatcttgc cacttcaga gcagagggaa 1560
tacctatctt cagatatccg tccattttca tctcttaatt gtagtcaaaa gtatgacttg 1620
agagtgttgc tctggtattc tgggttctga agtctggtat tctggtattc tgggttcaaa 1680
agtatgactt gagagtgttg ctctggtatt ctgagagttg ctctgtattc tgggttctga 1740
agattatttg aaaaaataact cctactacat tgaaatgcag acttaaaaat ttaaaccattg 1800
gattaggcag tcaaaaaaac caagcaagca taaaagggtc ataagttgta atcttgatag 1860
taaagggtga aaactyatta taaatggaaa gaaagtttta tttccttttt tgtttgatgg 1920
gcagtatgcc atattatacc caaagttstk ttaaaaaata yttccatcaa cyatttttat 1980
ttaaaataaa catttgaggg aagttacca ggcagctttt ttctcaaaa gtaacctgtt 2040
cctcttttga ayagcacatt ttaggggcat ggttaatacc tgagattttt actcagtaaa 2100
tcctgatggt tacygtgtgt aaaatatctt taagtaggat tgaaggcctc tgtgggggaa 2160
taaaatatta ccaaagtcta taaaaataaa ttttacatgt tctcttttat gacagagagc 2220
agcactgggt ctgttatttt taaaatgaat aattgatctt ttgatagggt tttaatattt 2280
cttccctcac tgctgattct tagatagaaa ccattcttta tatttgatag actgctttca 2340
gaaaaccctt atcaacaagt gtacaatact tatctaaaac tatacattta gaatggagca 2400
gtttaatact agatctcaga agttttgaaa aatagcaaag aagactggat ttggaaagca 2460
tgggtctaaa ttggttggtt aattctgaag ctatgaagaa taaatgtttc aactttggat 2520
tatgaaaccc catttatgat tttttaaata cacttgaaat aaaaatgatt aaactaaaaa 2580
aaaaaaaaa aaaaaattnc tgcggcgcn aaggggaattc 2620

```

<210> 2071

<211> 1476

1327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<400> 2071

```

taaaattttg gaatttgcca tttctcagac aatgatcagg ccttaggaaa ttaatacagt 60
agtagtaatc atttttctagg ggaaaataaa agaataaatc actatactga tatttttgata 120
taagcaagca cttacatggt aatcactata tagatccaac ctgtggattt tcttcttatg 180
tccatttaac tagaatatat tatttttaggt ataatttaca aatgtcacac ctaataatct 240
tttataatat accntattttc attaaagttt tgttagagaa gtatctacca cagaggagtt 300
tttgtcattg tgtacgttgt gtatttgaac ccaccatgac agaaagtaaa ttttaggaaa 360
tagttatgag attaagggaa aatctataaa aacaagggtta gcatattctc aacacagata 420
ccaccacttt ctttttccca ttatagacat ggtgaatcca cacagcatac ttcattctctg 480
agctttgttg tgattcctca acacattacc ctaaccagcc agcagtaaca gatttcagag 540
taagataaag cagattctgt cttcattgca aaaagttatt ctcaatggaa gaatggcatc 600
tgatctcata attactagtt tatattaata tagttttttt ctcccttttt aataaaaataa 660
ttacagtcac ccctcagtgt ctgtggggga ttggttccag ttacccttat agataccaaa 720
atctgcagat gctcaagtcc ctgatataaa ctggcatagt agttgcatat aatctatgca 780
catcctcctg tatacattaa gtcattctca gattatttat aacacttaat acaatgtaaa 840
tgctatgtag ttgttataacc atactgggta gtgaataatt acatgaaaaa aaagagtctg 900
tacatcttca gagtttcagt cggcaatttc ttggccatgg atgtagaacc tacagataag 960
gtgagccaac tgcattagga aataactcta ataattctgt taattcttag agaggaaaac 1020
tttcaaaatc ttctcaggt atttattaca actgccttta ccatttttagt tgtaacacag 1080
tttaaatgtt tatgataaca agtaataaag agcaaagaat ttatttctta attcaaaact 1140
atacgtttga attcaatatg gtataactta aagtgggtata atacatacaa tgcattgaatc 1200
ataatggatt cttttataag ttattaattt ttatgggtta atcagtctaa ttgttttgac 1260
tgttatagaa accaaatatt ttactgtttc ttttaaggac taatattgtc aaaaactgct 1320
gttattaact tcacttgagt tgtttaactt ccttctgttt taagattgta attaaaaatt 1380
actattttgt tatatggaat ggttaatttt tacctaataa aaacatagat gaaatacawt 1440
gtaaaaaaaa aaaaagcctc cctccgtgcc gtcgat 1476

```

<210> 2072

<211> 2224

<212> DNA

<213> Homo sapiens

<400> 2072

```

cgggtcgacc cacgcgtccg gagctgcccc gaacaaagat ggcgcgaggaa gcgtctgtga 60
gggcagactg atccgagcac ccaaaccctc ggcgagacagc ggagccagtg gtagccgcac 120
ggccctaaaa ccatggagga gggcggcagc actggcagtg ctggcagtgta cagcagcacc 180
agcggggagt gcggggcgca gcaaagggag ctggagcgca tggctgaggt cttggtcacc 240
ggggaacagc tacggctcag gctgcacgaa gaaaagggtta ttaaagatag acgtcatcat 300
ctcaagacct acccaaactg ttttgtcgca aaagaactga ttgactggct gattgaacac 360
aaagaggctt ctgacagaga gacggcaatt aaactcatgc agaaattagc agaccggggc 420
attattcacc atgtgtgtga tgagcataag gaattcaagg atgtcaaact cttctaccgc 480
tttagaaaag atgacggcac cttccattg gataatgaag tgaaggcctt tatgagagga 540
cagaggctat atgaaaagct gatgagccct gaaaacacac tcctgcagcc cagggaggag 600

```


1328

```
gaaggggtca agtatgagcg caccttcatg gcatctgaat tctggactg gctggttcag 660
gaaggtgagg ccaccacgag gaaagaggca gagcagcttt gccaccggct tatggagcat 720
ggcatcatcc agcatgtgtc cagcaagcac ccatttgttg acagcaatct tctctaccag 780
ttcagaatga acttccggcg gaggcgaaga ctgatggagc tgctcaatga aaagtccccc 840
tcctcccagg aaactcatga cagtcccttc tgcttgagga agcagagcca tgacaatcgg 900
aaatctacca gctttatgtc aatgtcctgc atgtagacta cgggaccgtg aacaatctga 960
ttctgacggg cccacggacg attgtcatgg aagtcatgga ggagttagag tgctgagctc 1020
ctgggcctcc cagccctcca gtggcctgtg ggtgagggaa gccagaatga cacaaagcaa 1080
tgcaaaagaca agattgccat gcaaattgat ggttttggac atacgagtct tctccgcaca 1140
tacatgtctg aagttgagtt ttatacactg aatgtggaag aaccgggtat catatctttt 1200
ttaaaaaatg tcagtgtaga aaacatttgg gaaaccattt tcctacatga tagaactgcc 1260
ttactagatt tctatttgtg gctctcattc attgtttttt atcttagttt gcagaaaggt 1320
gttgaaatgc ttctctagcc caaacagcga catgctaaag tccccctctt cagagtcaat 1380
agagtagttg ttaaaggttt taaattgtac tttctccaaa attagcatgc agctatttaa 1440
tagggaatct agatttcacc aagattcaaa tcaaagcaac atttaaagga ataagacctg 1500
ttcactagca ttttcaaggg ggttctaaag cattcaagtg cttaaaagcc ataaaaaatg 1560
acttcttaat tcttgctttt agtgtcaact tttaagttaa tacaggtttc aattgtggca 1620
ttaggaaaaa aaaaaaacct tgtgatgcta tggttggggg tagttaggga gagactacat 1680
gaaattgtgt gccctatatt tctttctgat cctaaatcat tttgttttat aaatcagcta 1740
tagcatcttt ctagaattaa tcctgaatat gttgaatgtt aaaatagaga agtttgtata 1800
tacacataat taaaaatcaa cccttctggc aaaaaaaaaa aaaaaaaaaa ctcgaggggg 1860
ggcccggtac ccaattcgcc ctatagttag tcgtattaca attcactggc cgtcgtttta 1920
caacgtcgtg actgggaaaa ccctggcggt acccaactta atcgcccttc agcacatccc 1980
cctttcgcca gctggcgtaa tagcgaagag gcccgcaccc atcgcccttc ccaacagttg 2040
cgcagcctga atggcgaatg gcaaattgta agcgtaata ttttgttaaa attcgcgtta 2100
aatttttgtt aaatcagctc attttttaac caataggccg aaatcggcaa aatcccttat 2160
aatcaaaaag aatagaccga gatagggttg agtggtgttc cagtttggaa caagagtcca 2220
ctat 2224
```

<210> 2073

<211> 820

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1329

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 2073

```

acgggatttn tggnatgcna ttcccgacac tatagatngt acgcctgcag ntaccgggtcc 60
ggaattcccc ggtcgaccca cgcgtccgcc cgccccacca gccatggtgg tttctggagc 120
gccccagcc ctgggtgggg gctgtctcgg caccttcacc tccctgctgc tgctggcgtc 180
kacagccatc ctcaatgcgg ccaggatacc tgttccccc gcctgtggga agccccagca 240
gctgaaccgg gttgtgggcg gcgaggacag cactgacagc gagtggccct ggatcgtgag 300
catccakaag aatgggaccc accactgcgc aggttctctg ctcaccagcc gctgggtgat 360
cactgctgcc cactgtttca aggacaacct gaacaaacca tacctgttct ctgtgctgct 420
gggggcctgg cagctgggga accctggctc tcggtcccag aaggtgggtg ttgcctgggt 480
ggagccccac cctgtgtatt cctggaagga aggtgcctgt gcagacattg ccctgggtgcg 540
tctcgagcgc tccatacagt tctcagagcg ggtcctgccc atctgcctac ctgatgcctc 600
tatcmacytc cctccaaaca cccactgctg gatctcaggc tgggggagca tccaagatgg 660
agttcccttg cccacctca gaccctgcan aagctgaagg ttctatcatc gactcggaag 720
tctgcagcat ctgtactgcg ggagcaagac aggacccatc actgaggaca tgctgtgtgc 780
ggtacttgga gggaacggga tgcttgctgg cnantccggg 820

```

<210> 2074

<211> 1487

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1330

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1487)

<223> n equals a,t,g, or c

<400> 2074

```

atgctcgacc ttagattgtn ctccctgcagn naccgggtccg gaattcccgg gtcgacccac 60
gcgtccgatt tgcgggaacg cagagcggag cgtggagagc ggagcgaagc tggataacag 120
gggaccgatg atgtggcgac catcagttct gctgcttctg ttgctactga ggcacggggc 180
ccaggggaag ccatccccag acgcaggccc tcatggccag gggaggggtgc accaggcggc 240
ccccctgagc gacgctcccc atgatgacgc ccacgggaac ttccagtacg accatgaggc 300
tttcctggga cgggaagtgg ccaaggaatt cgaccaactc accccagagg aaagccaggc 360
ccgtctgggg cggatcgtag accgcatgga ccgcgcgggg gacggcgacg gctgggtgtc 420
gctggccgag cttcgcgcgt ggatcgcgca cacgcagcag cggcacatac gggactcggg 480
gaagaatttc atgacgtgga ggatgcagag acctacaaaa agatgctggc tcgggacgag 540
cggcgtttcc gggtagccga ccaggatggg gactcgatgg cactcgaga ggagctgaca 600
gccttcctgc accccgagga gttccctcac atgcgggaca tcgtgattgc tgaaaccctg 660
gaggacctgg acagaaacaa agatggctat gtccagggtg aggagtacat cgcggatctg 720
tactcagccg agcctgggga ggaggagccg gcgtgggtgc agacggagag gcagcagttc 780
cgggacttcc gggatctgaa caaggatggg cacctggatg ggagtgaggt gggccactgg 840
gtgctgcccc ctgcccagga ccagcccctg gtggaagcca accacctgct gcacgagagc 900
gacacggaca aggatgggcg gctgagcaaa gcggaaatcc tgggtaattg gaacatgttt 960
gtgggcagtc aggccaccaa ctatggcgag gacctgaccc ggcaaccacga tgagctgtga 1020
gcmccgcgca cctgccacag cctcagaggc ccgcacaatg accggaggag gggccgctgt 1080
ggtctggccc cctccctgtc caggccccgc aggaggcaga tgcagtcca ggcacccctc 1140
tgcccctggg ctctcagggg ccccctgggt cggcttctgt ccctgtcaca cccccaaccc 1200
cagggagggg ctgtcatagt cccagaggat aagcaatacc tatttctgac tgagtctccc 1260
agccagacc cagggaccct tggccccaag ctcagctcta agaaccgccc caaccctccc 1320
agctccaaat ctgagcctcc accacataga ctgaaactcc cctggcccca gccctctccc 1380
gcctggcctg gcctgggaca cctcctctct gccaggaggc aataaaaagcc agcgccggga 1440
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaan 1487

```

<210> 2075

<211> 2386

<212> DNA

<213> Homo sapiens

<400> 2075

1331

```

gacactatag aaggtacgcc tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt 60
ccgatcagtt atggctaaat cctgtccatc tgtgtgtcgc tgcgatgcgg gtttcattta 120
ctgtaatgat cgcttttctga catccattcc aacaggaata ccagaggatg ctacaactct 180
ctaccttcag aacaaccaaa taaataatgc tgggattcct tcagatttga aaaacttgct 240
gaaagtagaa agaataatcc tataccacaa cagtttagat gaatttccta ccaacctccc 300
aaagtatgta aaagagttac atttgcaaga aaataacata aggactatca cttatgattc 360
actttcaaaa attccctatc tggaagaatt acatttagat gacaactctg tctctgcagt 420
tagcatagaa gagggagcat tccgagacag caactatctc cgactgcttt tcctgcccgt 480
aatcacctta gcacaattcc ctgggggttg cccaggacta tagaagaact acgcttggat 540
gataatcgca tatccactat ttcatacca tctcttcaag gtctcactag tctaaaacgc 600
ctggttctag atggaaaacct gttgaacaat catgggttag gtgacaaaagt tttcttcaac 660
ctagttaatt tgacagagct gtccctgggt cggaattccc tgactgctgc accagtaaac 720
cttccaggca caaacctgag gaagctttat cttcaagata accacatcaa tcgggtgccc 780
ccaaatgctt tttcttatct aaggcagctc tatcgactgg atatgtccaa taataaccta 840
agtaatttac ctcagggtat ctttgatgat ttggacaata taacacaact gattcttcgc 900
aacaatccct ggtattgcgg gtgcaagatg aaatgggtac gtgactgggt acaatcacta 960
cctgtgaagg tcaacgtgcg tgggctcatg tgccaagccc cagaaaaggt tcgtgggatg 1020
gctattaagg atctcaatgc agaactgttt gattgtaagg acagtgggat tgtaagcacc 1080
attcagataa ccactgcaat acccaacaca gtgtatcctg cccaaggaca gtggccagct 1140
ccagtacca aacagccaga tattaagaac cccaagctca ctaaggatca acaaaccaca 1200
gggagtccct caagaaaaac aattacaatt actgtgaagt ctgtcacctc tgataccatt 1260
catatctctt ggaaacttgc tctacctatg actgctttga gactcagctg gcttaaactg 1320
ggccatagcc cggcatttgg atctataaca gaaacaattg taacagggga acgcagtgag 1380
tacttggta cagccctgga gcctgattca cctataaaag tatgcatggt tcccatggaa 1440
accagcaacc tctacctatt tgatgaaact cctgtttgta ttgagactga aactgcaccc 1500
cttcgaatgt acaaccctac aaccacctc aatcgagagc aagagaaaaga accttacaaa 1560
aaccccaatt tacctttggc tgccatcatt ggtggggctg tggccctggt taccattgcc 1620
cttcttgctt tagtgtgttg gtatgttcat aggaatggat cgctcttctc aaggaaactgt 1680
gcatatagca aagggaggag aagaaaggat gactatgcag aagctggcac taagaaggac 1740
aactctatcc tggaaatcag ggaaacttct tttcagatgt taccaataag caatgaaccc 1800
atctcgaagg aggagtttgt aatacacacc atatttcctc ctaatggaat gaatctgtac 1860
aaaaacaatc acagtgaaag cagtagtaac cgaagctaca gagacagtgg tattccagac 1920
tcagatcact cacactcatg atgctgaagg actcacagca gacttgtgtt ttgggttttt 1980
taaacctaa gagggtgatg gtaggaaccc tgttctactg caaaacactg gaaaaagaga 2040
ctgaaaaaaa gcaatgtact gtacatttgc catataattt atatttaaga actttttatt 2100
aaaagtttca aatttcaggt tactgctgcg attgatgtag tggagatgcc tgaacacaat 2160
tctatatatt agtatttttt agtaatttgt actgtatttt ccttgcaaat attggagtta 2220
taaaccattt actttgtgtt ctactgagta agatgacttg ttgactgtga aagtgaattt 2280
tcttgctgtg tcgaacaatc aggactgcat tcatatgaga tccttgtagt ataagcacag 2340
gccatttttc actttgggat taataaaatg taaaaaaaaa atttgt 2386

```

<210> 2076

<211> 3893

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

1332

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<400> 2076
 ccnnacggaa ctcntacggg gacttttctaa cggaamtctc gtgacactat agaaggtacg 60
 cctgcaggta ccggtccgga attcccgggt cgacccacgc gtccgatccc atcagagtct 120
 cccccccaca ttcaattact gaaaagcaat cgggaacttc tggtcactca catccgcaat 180
 actcagtgtc tgggtggacaa cttgctgaag aatgactact tctcggccga agatgctggag 240
 attgtgtgtg cctgccccac ccagcctgac aagggtccgca aaattctgga cctggtacag 300
 agcaagggcg aggaggtgtc cgagttcttc ctctacttgc tccagcaact cgcagatgcc 360
 tacgtggacc tcaggccttg gctgctggag atcggttctt ccccttccct gctcactcag 420
 agcaaagtgc tgggtcaacac tgaccagtg agcaggtata ccagcagct gcgacaccat 480
 ctgggccgtg actccaagtt cgtgctgtgc tatgccaga aggaggagct gctgctggag 540
 gagatctaca tggacaccat catggagctg gttggcttca gcaatgagag cctgggcagc 600
 ctgaacagcc tggcctgcct cctggaccac accaccggca tcctcaatga gcagggacct 660
 gctcttcaag cactactgct acccagagcg ggaccccgag gaggtgtttg ccttcctgct 720
 gcgcttcccc cacgtggccc tcttcacctt cgatggcctg gacgagctgc actcggactt 780
 ggacctgagc cgcgtgcctg acagctcctg cccctgggag cctgcccacc ccctggtctt 840
 gctggccaac ctgctcagtg ggaagctgct caagggggct agcaagctgc tcacagccccg 900
 cacaggcatc gaggtccccg gccagttcct gcggaagaag gtgcttctcc ggggcttctc 960
 ccccagccac ctgcgcgctt atgccaggag gatgttcccc gagcgggccc tgcaggacct 1020
 cctgctgagc cagctggagg ccaaccccaa cctctgcagc ctgtgctctg tgccccctctt 1080
 ctgctggatc atcttccggt gcttccagca ctcccgctg gcctttgaag gctcaccaca 1140
 gctgcccgac tgcacgatga ccctgacaga tgtcttctc ctggtcactg aggtccatct 1200
 gaacaggatg cagcccagca gcctggtgca gcggaacaca cgcagcccag tggagacctt 1260
 ccacgccggc cgggacactc tgtgctcgct ggggcagggt gccccaccgg gcattggagaa 1320
 gagectcttt gtcttcaccc aggaggagggt gcakgcctcc gggctgcagg agagagacat 1380
 gcagctgggc ttyctgcggg ctttgccgga rctgggcccc ggrggtgacc agcagtycta 1440
 tgagtttttc cacctcacc tccaggcctt ctttacagcc ttcttctctg tgctggacga 1500
 cagggtgggc actcaggagc tgcctcaggt cttccaggag tggatgcccc ctgcgggggc 1560
 agcgaccacg tcctgctatc ctcccttctt cccgttccag tgcctgcagg gcagtggctc 1620
 ggcgcgggaa gacctcttca agaacaagga tcaacttccag ttcaccaacc tcttctctgtg 1680
 cgggctgttg tccaaagcca aacagaaact cctgcggcat ctggtgcccg cggcagccct 1740
 gaggagaaaag cgcaaggccc tgtgggcaca cctgttttcc agcctgcggg gctacctgaa 1800
 gagectgccc cgcgttcagg tcgaaagctt caaccagggt caggccatgc ccacgttcat 1860
 ctggatgctg cgctgcatct acgagacaca gagccagaag gtggggcagc tggcgggcag 1920
 gggcatctgc gccaaactacc tcaagctgac ctactgcaac gcctgctcgg ccgactgcag 1980
 cgccctctcc ttcgtcctgc atcacttccc caagcggctg gccctagacc tagacaacaa 2040
 caatctcaac gactacggcg tgcgggagct gcagccctgc ttcagccgcc tcaactgttct 2100
 cagactcagc gtaaaccaga tcaactgacg tgggggtaaa gtgctaagcg aagagctgac 2160
 caaatacaaa attgtgacct atttgggttt atacaacaac cagatcaccg atgtcggagc 2220
 caggtagctc accaaaatcc tggatgaatg caaaggcctc acgcatctta aactgggaaa 2280
 aaacaaaata acaagtgaag gaggggaagta tctcgccctg gctgtgaaga acagcaaadc 2340
 aatctctgag gttgggatgt ggggcaatca agttggggat gaaggagcaa aagccttctc 2400

1333

```

agaggctctg cggaaccacc ccagcttgac caccctgagt cttgcgtcca acggcatctc 2460
cacagaagga ggaaagagcc ttgcgagggc cctgcagcag aacacgtctc tagaaatact 2520
gtggctgacc caaaatgaac tcaamgatga aktggcagag agtttggcag aaatgttgaa 2580
agtcaaccag acgttaaagc atttatggct tatccagaat cagatcacag ctaaggggac 2640
tgcccagctg gcagatgcgt tacagagcaa cactggcata acagagattt gcctaaatgg 2700
aaacctgata aaaccagagg aggccaaagt ctatgaagat gagaagcgga ttatctgttt 2760
ctgagaggat gcttttctgt tcaggggttt ttgccctgga gcctcagcag caaatgccac 2820
tctgggcagt cttttgtgtc agtgtcttaa aggggcctgc gcaggcgga ctatcaggag 2880
tccactgcct ccatgatgca agccagcttc ctgtgcagaa ggtctggctg gcaaactccc 2940
taagtacccg ctacaattct gcagraaaaag aatgtgtctt gcgagctgtt gtagttacag 3000
taaatacact gtgaagagac tttattgcct attataatta tttttatctg aagctagagg 3060
aataaagctg tgagcaaaca gaggaggcca gcctcacctc attccaacac ctgccatagg 3120
gaccaacggg agcgagttgg tcaccgctct tttcattgaa gaggttagga tgtggcaca 3180
agttggtgcc aagcttcttg aataaaacgt gtttgatgga ttagtattat acctgaaata 3240
ttttcttctc tctcagcact ttcccatgta ttgatactgg tcccacttca cagctggaga 3300
caccggagta tgtgcagtgt gggatttgac tcctccaagg ttttgtggaa agttaatgtc 3360
aaggaaagga tgcaccacgg gctttttaatt ttaatcctgg agtctcactg tctgctggca 3420
aagatagaga atgccctcag ctcttagctg gtctaagaat gacgatgcct tcaaaatgct 3480
gcttccactc agggcttctc ctctgctagg ctaccctcct ctagaaggct gagtaccatg 3540
ggctacagtg tctggccttg ggaagaagtg attctgtccc tccaaagaaa tagggcatgg 3600
cttgcccctg tggccctggc atccaaatgg ctgcttttgt ctcccttacc tcgtgaagag 3660
gggaagtctc ttctgcctc ccaagcagct gaagggtgac taaacgggcg ccaagactca 3720
ggggatcggc tgggaactgg gccagcagag catgttgagc accccccacc atgggtgggt 3780
tgtggtggct gctccatgag ggtgggggtg atactactag atcacttgtc ctcttgccag 3840
ctcatttggt aataaaatc tgaaaacaca aaaaaaaaaa aaaaaaaaaa aaa 3893

```

<210> 2077

<211> 3233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3231)

<223> n equals a,t,g, or c

<400> 2077

```

ctttctccac tcaagcttta tgcacaagtc tgcagatatg acctaggctc ttatcttgct 60
tccctgccat tggacagctc tctacttttc cagccaaatt tagttgcccc tacaagtcag 120
tctttgatta ctccacctca gatgacaaat actggaaatg ctaatactcc atctgccacc 180
ttagcatctg cagcgagcag cactatgaca gtgacttcag gtgttgccat atctacttca 240
gttgccacag ctaattcaac tttgaccaca gcttcaactt catcttcac atcctccaac 300
ttgaatagtg gagtatcatc aaataaacta ccttcgtttc caccctttgg cagtatgaac 360
agtaatgctg caggatccat gtctacacaa gcaaatacag ttcagagtgg tcagctagga 420
gggcaacaga catcagctct acagacagct gggatttctg gagaatcatc ttcacttccc 480
actcagccgc atcctgatgt gtctgaaagc acgatggatc gggataaagt gggaatcccc 540

```

1334

```

acagatggtg attcacatgc agtcacgtat ccacctgcaa ttgttgkttataataattgat 600
cctttttacat acgaaaatac agacgagagc actaactctt ctagtgtgtg gacattgggg 660
ctacttcgat gcttttctaga aatggtccag actcttcctc ctcatatcaa gagtactgtt 720
tctgtacaga ttattccttg tcagtacctg ttgcaacctg tgaagcatga agatagagaa 780
atctatcccc agcattttaa atccctggct ttttcggcct ttaccagtg tcggaggcca 840
cttccaacat caaccaatgt gaaaacattg actggccttg gtccagggtt agccatggaa 900
actgccctta gaagtcctga tagaccagag tgtattcgac tttatgcacc tccttttatt 960
ctggctccag tgaaggacaa acagacagag ctaggagaaa catttgga agctggacag 1020
aaatataatg ttctttttgt gggatactgt ttatcacatg atcaaagggtg gattccttgca 1080
tcttgcacag atctatatgg agaactttta gaaacttgta tcattaacat cgatgttcca 1140
aatagggtc gtcggaaaaa aagtcttgct agaaaatttg gtctacagaa actttgggag 1200
tggtgcttag gacttgtaga aatgagttca ttgccatgga gagttgtaat tggctgtcta 1260
ggaaggattg gtcattggaga attgaaagat tggagctgtt tgctgagtcg tcgaaacttg 1320
cagtctctaa gtaaaaggct caaagacatg tgtagaatgt gtggkatatc tgctgcagac 1380
tcccctagca ttctcagtg ttgcttggtg gcaatggagc cgcaaggctc ttttggtatt 1440
atgccagatt ctgtgtcaac tggttctgta tttggaagaa gcacgactct aaatatgcag 1500
acatctcagc taaatacccc acaggataca tcatgtactc atatacttgt gtttcctact 1560
tctgcttctg tgcaagtagc ttcagctact tataccactg aaaaatttga tttagctttc 1620
aatcccaaca atgatggagc agatggaatg ggtatctttg atttggtaga cacaggagat 1680
gatcttgacc ctgatatcat taatatcctt cctgcttctc caactgggtc tcctgtacat 1740
tctccaggat ctcatcacc ccatggaggt gatgcgggca agggtcagag tactgatcgg 1800
ctactatcaa cagaacctca tgaggaagta cctaatttc ttcagcaacc attggccctt 1860
ggttactttg tatcaactgc caaagcaggt ccattacctg actggttctg gtcagcatgt 1920
cctcaagcac aatatcagtg tccccttttt cttaaggcct ctttgcacct ccacgtgcct 1980
tcagtgcaat ctgacgagct gcttcacagt aaacactccc acccacttga ctcaaactcag 2040
acttcagatg tctcagggtt tgttttggaa cagtacaatg cactctcctg gctaacctgt 2100
gacctgcaa cccaggacag acgctcatgt ctcccaattc attttggtgt gctgaatcag 2160
ttatataact ttattatgaa tatgctgtga tcttcatttg atggaactgt gcaagaaaag 2220
aacaaggaaa aatggatgtt tcgctgcagg attaagttac aattatcttc tcagtgaagg 2280
tcatttgtag tggggtctaa ttcttattac ttcaacaaat attgttttga cttgggggga 2340
ggggctataa cctgctatt tttcattgac tctattgaac tcttttaggat gatgactgat 2400
catacaaaac gtattataac attttcgtag caaaattaac cttttttttt tccagtcaca 2460
gtatttgtag aaagtaatga gccatagtag ccagtcatgt taaatgaata ttaaaagcat 2520
ggagaggaaa catgaggaa aatgaatttc aacatatggc ttcagaacat gaagatgttc 2580
ttgtatggat tatagtatct agtattcaaa aatgcctgca tctcttctct tatttattgt 2640
aagtttttaa atgtataaat tgtcttatat ttcttaacct cttttataaa aattttccta 2700
gaaggtttat actgccttct tgctttaaag caattggtct aaaatatatg taatcgtctt 2760
aattaaaaag ttgcagtagg gttgctttta gagtattatt tttttgtaag ggggtgggtg 2820
ggacagtaaa tttgtattgt ctcgatgtac agtttaacgg ggatagaggg ggaataatgt 2880
ccataccatt gtgtgtggag gatttacagc taagctgtag ttgcagagta catgtacagt 2940
aatgaagttc actgtgttta taaattgaaa aggtaccagg tcttacagca ttttatatat 3000
cacatcttta cagaataaca tgatggcaat atacaagtgg tattgttagg tggtttaact 3060
tagaataaaa tgagaattct tcagttatat tttgtactat ggttttagggc tatgactaat 3120
atttcaggcc atttccggtg aaagaaactt agttttacaa gaaaaacat ttgctactga 3180
atgcttaaac taattttagt gwwtaatgtg gcgacgtcca aacntagttc ntt 3233

```

<210> 2078

<211> 2981

<212> DNA

<213> Homo sapiens

1335

<220>
 <221> misc feature
 <222> (139)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (140)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2817)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2916)
 <223> n equals a,t,g, or c

<400> 2078
 gtcagcctca cgcgggcgga aggaaccggt ccgaggcccc gggtgcccgg cgcgggcgcc 60
 cggcacgtcc acaggctggg tcgcgagggt gcgatcgctg agaggcagga gggccgaggc 120
 gggcctggga ggcggcccn n ggtggggcgc cgctggggcc ggcccgcacg gcttcatctg 180
 agggcgcacg gcccgcgacc gagcgtgcgg actggcctcc caagcgtggg gcgacaagct 240
 gccggagctg caatgggccc cggtggggga ttcttgtttg gcctcctggg cgccgtgtgg 300
 ctgctcagct cggggccacgg agaggagcag cccccggaga cagcggcaca gaggtgcttc 360
 tgccagggtta gtggttactt ggatgattgt acctgtgatg ttgaaacctt tgatagattt 420
 aataactaca ggcttttccc aagactacaa aaacttcttg aaagtgacta ctttaggtat 480
 tacaaggtaa acctgaagag gccgtgtcct ttctggaatg acatcagcca gtgtggaaga 540
 agggactgtg ctgtcaaacc atgtcaatct gatgaagttc ctgatggaat taaatctgcg 600
 agctacaagt attctgaaga agccaataat ctcattgaag aatgtgaaca agctgaacga 660
 cttggagcag tggatgaatc tctgagtga gaaacacaga aggtgttct tcaagtggacc 720
 aagcatgatg attcttcaga taacttctgt gaagctgatg acattcagtc ccctgaagct 780
 gaatatgtag atttgcttct taatcctgag cgctacactg gttacaaggg accagatgct 840
 tggaaaatat ggaatgtcat ctacgaagaa aactgtttta agccacagac aattaaaga 900
 ccttttaaate ctttggcttc tgggtcaaggg acaagtgaag agaacacttt ttacagttgg 960
 ctagaaggtc tctgtgtaga aaaaagagca ttctacagac ttatatctgg cctacatgca 1020
 agcattaatg tgcattttgag tgcaagatat cttttacaag agacctggtt agaaaagaaa 1080
 tggggacaca acattacaga atttcaacag cgatttgatg gaattttgac tgaaggagaa 1140
 ggtccaagaa ggcttaagaa cttgtatttt ctctacttaa tagaactaag ggctttatcc 1200
 aaagtgttac cattcttcga gcgccagat tttcaactct ttactggaaa taaaattcag 1260
 gatgaggaaa acaaaatgtt acttctggaa atacttcatg aaatcaagtc atttcctttg 1320
 cattttgatg agaattcatt ttttgcctgg gataaaaaag aagcacacaa actaaaggag 1380
 gactttcgac tgcatttttag aaatatattca agaattatgg attgtgttgg ttgttttaaa 1440
 tgctgtctgt ggggaaagct tcagactcag ggtttgggca ctgctctgaa gatcttattt 1500
 tctgagaaat tgatagcaaa tatgccagaa agtggacctt gttatgaatt ccattcaacc 1560
 agacaagaaa tagtatcatt attcaacgca tttggaagaa tttctacaag tgtgaaagaa 1620
 ttagaaaact tcaggaactt gttacagaat attcattaaa gaaaacaagc tgatatgtgc 1680
 ctgtttcttg acaatggagg cgaaagagtg gaatttcatt caaaggcata atagcaatga 1740
 cagtcttaag ccaaacattt tatataaagt tgcttttgta aaggagaatt atattgtttt 1800

1336

```

aagtaaacac atttttataaa attgtgttaa gtctatgtat aatactactg tgagtaaaag 1860
taatacttta ataattgtgtt acaaatttta aagtttaata ttgaataaaa ggaggattat 1920
caaattcata tatgataaaa gtgaatgttc taagtctctc aaactagcgt tttatgtaat 1980
aatatgtaat ataaataaaa ctatggtaaa tgtgacaagc atttaatagg aaaatgctaa 2040
ggaggcctca taaatgaccc ataattacca acgtagaatt tttcagtaca tttaggggtg 2100
ctggatttag caaataaaaa taaggattgc ccagtttagat ttgaatttca gataaacaat 2160
tagtttttta atatttttaca tggaatattt ggaaaatact tatactaaaa aattrtttgt 2220
ttgaaattca aatttaactg ggagtcttgt attttatctg gcaatcctaa aatacattgg 2280
tatgaaacaa atcactttta gaagtatat gctatttttg ttgggttgtt tttgtgtgta 2340
gaaacgtaca ataacaactc aaaggcacag gagatttcta aacattgtga aaagttgaat 2400
agattatata tttatttctca taatactttc actaatacta aataaaaattt ggggaacact 2460
ttttattttt atataatttc caatttacag aaaagtttca aaaaatagta aaagagctct 2520
cttaccaga ttcactaatt gtccatacgt gctttatctt tcatgctttc tctgtacaca 2580
cacacacaca cacaattttt tccatcaatca tttgaaaagtc agttataggc atcatgcccc 2640
ttaaacccta aatacttcag tgtgtaatac tgaataatta ctaaaaatga ttttctcara 2700
aaaaaaaaay tcccacaatt ctggaactat aatactgtaa gccttagaat aaataatact 2760
ttcaagttca atctaaagkt ctttttgagk tttgggtgccg gtttawgctt gatgggnata 2820
gtaatagggg arggctattt wattwataa aaattttttt wagagacaag ggtttgctgg 2880
ggtggccaac tggacctgga ccgactgggc tgaagngatc ttccacttag cttccaagta 2940
gctgggaaaa caggggctgc cccataccag gttcaatttg g 2981

```

<210> 2079

<211> 2458

<212> DNA

<213> Homo sapiens

<400> 2079

```

cggccacgaa ccgcgtagtt gcgcccaccc cgggacccgg gacccctgcs gagcgccacg 60
ccgacggctt ggcgctcgcc ctggagcctg ccctggcgct ccccgcgggc gccgccaact 120
tcttgcccat ggtagacaac ctgcaggggg actctggccg cggctactac ctggagatgc 180
tgatcgggac cccccgcag aagctacaga ttctcgttga cactggaagc agtaactttg 240
ccgtggcagg aacccgcac tccatcatag acacgtactt tgacacagag aggtctagca 300
cataccgctc caagggcttt gacgtcacag tgaagtacac acaaggaagc tggacgggct 360
tcgttgggga agacctcgtc accatcccca aaggcttcaa tacttctttt cttgtcaaca 420
ttgccactat ttttgaatca gagaatttct ttttgccctg gattaaatgg aatggaatac 480
ttggcctagc ttatgccaca cttgccaagc catcaagttc tctggagacc ttcttcgact 540
ccctgggtgac acaagcaaac atccccaacg ttttctccat gcagatgtgt ggagccggct 600
tgcccgttgc tggatctggg accaacggag gtagtcttgt cttgggtgga attgaaccaa 660
gtttgtataa aggagacatc tggatatacc ctattaagga agagtggtag taccagatag 720
aaattctgaa attggaaatt ggaggccaaa gccttaatct ggactgcaga gagtataacg 780
cagacaaggc catcgtggac agtggcacca cgctgctgcg cctgccccag aaggtgtttg 840
atgcggtggt ggaagctgtg gcccgcgcat ctctgattcc agaattctct gatggtttct 900
ggactgggtc ccagctggcg tgctggacga attcggaaac accttggctt tacttcccta 960
aaatctccat ctacctgaga gacgagaact ccagcaggtc attccgtatc acaatcctgc 1020
ctcagcttta cattcagccc atgatggggg ccggcctgaa ttatgaatgt taccgattcg 1080
gcatttcccc atccacaaat gcgctggtga tcgggtgccac ggtgatggag ggcttctacg 1140
tcatcttcga cagagcccag aagaggggtg gcttcgcagc gagccccctg gcagaaattg 1200
caggtgctgc agtgtctgaa atttccgggc ctttctcaac agaggatgta gccagcaact 1260
gtgtccccgc tcagtctttg agcgagccca ttttgtggat tgtgtcctat gcgctcatga 1320
gcgtctgtgg agccatcctc cttgtcttaa tcgtcctgct gctgctgcg ttccgggtgc 1380
agcgtcgccc ccgtgaccct gaggtcgtca atgatgagtc ctctctggtc agacatcgct 1440

```

1337

```
ggaaatgaat agccaggcct gacctcaagc aaccatgaac tcagctatta agaaaatcac 1500
atttccaggg cagcagccgg gatcgatggg ggcgctttct cctgtgcca cccgtcttca 1560
atctctgttc tgctcccaga tgccttctag attcaactgtc ttttgattct tgattttcaa 1620
gctttcaaat cctccctact tccaagaaaa ataattaaaa aaaaaacttc attctaaacc 1680
aaaacagagt ggattgggct gcaggctcta tgggggttygt tatgccaaag tgtctacatg 1740
tgccaccaac ataaaaacaaa accaagcctt ggctcggttct cttctctctt caatctctgg 1800
aaaaataagt acatatagtt gataaccctt cttagcttac aggaagcttt ttgtattaat 1860
tgcctttgag gttattttcc gccagacctc aacctgggtc aaagtgggtac aggaaggctt 1920
gcagtatgat ggcaggagaa tcagcctggg gcctggggat gtaaccaagc tgtacccttg 1980
agacctggaa ccagagccac agggcccttt tgtgggtttc tctgtgctct gaatgggagc 2040
cagaattcac taggaggtca tcaaccgatg gtcctcacia gcctcttctg aagatggaag 2100
gccttttgcc cgttgaggta gaggggaagg aaatctcctc ttttgtaccc aatacttatg 2160
ttgtattgtt ggtgcgaaag taaaaacact acctcttttg agactttgcc cagggtcctg 2220
tgcctggatg ggggtgcagg cagccttgac cagggtgtt cccctcacc aaagaatta 2280
tcatcccaac agccaagacc caacaggtgc tgaactgtgc atcaaccagg aagagttcta 2340
tccccagct ggccactatc acatatgctt actcttgctt aaaattaata aatcatgttt 2400
tgatgagaaa aaactaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 2458
```

<210> 2080

<211> 2650

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<400> 2080

```
ncngacagtn accgggtccga attcgcggcc ggctcgaccgg ncaaggctgg agagcgcagg 60
tgttcccga cccctggcg ctgtcggtcc tgctggcaa gatggagagg ctggagctca 120
```

1338

```

gggacccccct ggccttgetg gtcccgetgg cgagagaggt gaacaaggcc ctgctggctc 180
ccccggattc cagggctctc ctggctctgc tggctctcca ggtgaagcag gcaaacctgg 240
tgaacagggt gtctctggag accttggcgc ccttggcccc tctggagcaa gaggcgagag 300
aggtttccct ggcgagcgtg gtgtgcaagg tccccctggt cctgctggtc cccgaggggc 360
caacggtgct cccggcaacg atggtgctaa ggtgatgctg gtgccccctg agctccccgt 420
agccagggcg cccctggcct tcagggaatg cctggtgaac gtggtgcagc tggctctcca 480
ggggcctaag ggtgacagaa gtgatgctgg tcccaaagtg ctgatggctc tcttggcaaa 540
gatggcgtnc gtggtctkam cggccccatt ggtcctcctg gccctgctgg tggctcttcc 600
gacaagggtg aaagtgttcc cagcggccct gctggtccca ctggagctcg tggtgcccc 660
ggagaccgtg gtgagcctgg tccccccggc cctgctggct ttgctggccc ccttgggtgt 720
gacggccaac ctggtgctaa aggcgaacct ggtgatgctg gtgctaaagg cgatgctggt 780
ccccctggcc ctgcccggacc cgttggaccc ccttggcccca ttggtaatgt tggtgctcct 840
ggagccaaaag gtgctcgcgg cagcgttggc cccccctggt ctactggttt ccttgggtgt 900
gctggccgag tcggctctcc tggccccctc ggaaatgctg gacccccctg cctccttgg 960
cctgctggca aagaaggcgg caaaggctcc cgtggtgaga ctggccctgc tggacgtcct 1020
ggtgaagttg gtccccctgg tccccctggc cctgctggcg agaaaggatc ccttgggtgt 1080
gatggtcctg ctggtgctcc tggctactcc gggcctcaag gtattgctgg acagcgtggt 1140
gtggtcggcc tgcctggtca gagaggagag agaggcttcc ctggtcttcc tggccccctc 1200
ggtgaacctg gcaaacaaag tccctctgga gcaagtgggt aacgtggctc ccttgggtcc 1260
atgggcccc ctggattggc tggaccccc ctggaatctg gacgtgaggg ggctcctggt 1320
gccgaagtcc ccttggacga gacggttctc ctggcgccaa gggtgaccgt ggtgagaccg 1380
gccccgctgg accccctggt gctcctggtg ctccctggtg ccttggcccc gttggccctg 1440
ctggcaagag tggtgatcgt ggtgagactg gtccctgctg tcccgcgggt cctgtcggcc 1500
ctgttggcgc ccgtggcccc gccggacccc aaggcccccg tggtgacaag ggtgagacag 1560
gcgaacaggg cgacagaggc ataaagggtc accgtggctt ctctggcctc caggggtcccc 1620
ctggccctcc tggctctcct ggtgaacaag gtccctctgg agcctctggt cctgctgggt 1680
cccaggttcc ccttggctct gctggtgctc ctggcaaaaga tggactcaac ggtctccctg 1740
gccccattgg gccccctggt cctcgcggtc gcactggtga tgcctggctc gttggtcccc 1800
ccggccctcc tggacctcct ggtccccctg gtccctccag cgctggtttc gacttcagct 1860
tcttggccca gccacctcaa gagaaggctc acgatggtgg ccgctactac cgggctgatg 1920
atgccaatgt ggttcgtgac cgtgacctcg aggtggacac caccctcaag agcctgagcc 1980
agcagatcga gaacatccgg agcccagagg gcagccgcaa gaacccccgc cgacctgcc 2040
gtgacctcaa gatgtgccac tctgactgga agagtggaga gtactggatt gaccccaacc 2100
aaggctgcaa cctggatgcc atcaaaagtct tctgcaacat ggagactggt gagacctgcg 2160
tgtacccccac tcagcccagt gtggcccgaga agaactggta catcagcaag aaccccaagg 2220
acaagaggca tgtctggttc ggcgagagca tgaccgatgg attccagttc gagtatggcg 2280
gccagggctc cgaccctgcc gatgtggcca tccagctgac cttcctgcgc ctgatgtcca 2340
ccgaggcctc ccagaacatc acctaccact gcaagaacag cgtggcctac atggaccagc 2400
agactggcaa cctcaagaag gccctgctcc tccagggctc caacgagatc gagatccgcg 2460
ccgagggcaa cagccgcttc acctacagcg tcactgtcga tggctgcacg agtcacaccg 2520
gagcctgggg caagacagtg attgaataca aaaccaccaa gacctccgc ctgcccata 2580
tcgatgtggc ccccttggac gttggtgccc cagaccagga attcggcttt tgaggggggt 2640
cagtttgggc                                     2650

```

<210> 2081

<211> 2302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1339

<222> (135)

<223> n equals a,t,g, or c

<400> 2081

```
gacgccggag cccctctgacc gcacctctga ccacaacaaa cccctactcc acccgtcttg 60
tttgtcccac ccttgggtgac gcagagcccc agcccagacc ccgccc aaag cactcattta 120
actggtattg cggancacga ggcttctgct tactgcaact cgctccggcc gctgggcgta 180
gctgcgactc ggcggagtcc cggcggcgcg tccttgttct aaccgggcgc gccatgaccg 240
tcgcgcggcc gagcgtgccc gcggcgctgc ccttcctcgg ggagctgccc cggtgctgc 300
tgctggtgct gttgtgcctg ccggccgtgt ggggtgactg tggccttccc ccagatgtac 360
ctaatagcca gccagctttg gaaggccgta caagttttcc cgaggatact gtaataacgt 420
acaaatgtga agaaagcttt gtgaaaattc ctggcgagaa ggactcagtg atctgcctta 480
agggcagtca atggctcagat attgaagagt tctgcaatcg tagctgcgag gtgccaacaa 540
ggctaaattc tgcattccctc aaacagcctt atatcactca gaattatttt ccagtcggta 600
ctgttgtgga atatgagtgc cgtccagggt acagaagaga accttctcta tcacaaaaac 660
taacttgcct tcagaattta aaatggtcca cagcagtcga attttgtaaa aagaaatcat 720
gccctaattc gggagaaaata cgaaatggtc agattgatgt accagggtggc atattatttg 780
gtgcaaccat ctcttctca tgtaacacag ggtacaaaatt atttggctcg acttctagtt 840
tttgtcttat ttcaggcagc tctgtccagt ggagtgaccc gttgccagag tgcagagaaa 900
tttattgtcc agcaccacca caaattgaca atggaataat tcaaggggaa cgtgaccatt 960
atggatatag acagtctgta acgtatgcat gtaataaagg attcaccatg attggagagc 1020
actctattta ttgtactgtg aataatgatg aaggagagtg gagtggccca ccacctgaat 1080
gcagaggaaa atctctaaact tccaagggtc caccaacagt tcagaaacct accacagtaa 1140
atgttccaac tacagaagtc tcaccaactt ctcaaaaaac caccacaaaa accaccacac 1200
caaatgctca agcaacacgg agtacacctg tttccaggac aaccaagcat tttcatgaaa 1260
caaccccaaa taaagggaagt ggaaccactt cagggtactac ccgtcttcta tctgggcaca 1320
cgtgtttcac gttgacaggt ttgcttggga cgctagtaac catgggcttg ctgacttagc 1380
caaagaagag ttaagaagaa aatacacaca agtatacaga ctgttcctag tttcttagac 1440
ttatctgcat attggataaa ataaatgcaa ttgtgctctt catttaggat gctttcattg 1500
tctttaagat gtgttaggaa tgtcaacaga gcaaggagaa aaaaggcagt cctggaatca 1560
cattcttagc acacctacac ctcttgaaaa tagaacaact tgcagaattg agagtgattc 1620
ctttcctaaa agtgtaaaga agcatagaga tttgttcgta tttagaatgg gatcacgagg 1680
aaaagagaa gaaagtgatt tttttccaca agatctgtaa tgttatttcc acttataaaag 1740
gaaataaaaa atgaaaaaca ttatttggat atcaaaaagca aataaaaaacc caattcagtc 1800
tcttctaagc aaaattgcta aagagagatg aaccacatta taaagtaatc tttggctgta 1860
aggcattttc atctttcctt cgggttggca aaatatatta aaggtaaaac atgctggtga 1920
accagggttg ttgatggtga taaggaggga atatagaatg aaagactgaa tcttcctttg 1980
ttgcacaaat agagtttggg aaaaagcctgt gaaagggtgtc ttctttgact taatgtcttt 2040
aaaagtatcc agagatacta caatattaac ataagaaaag attatatatt atttctgaat 2100
cgagatgtcc atagtcaa atgttaaactc tatttctttt taatatttat ttatatattat 2160
ttatgacagt gaacattctg attttacatg taaaacaaga aaagttgaag aagatatgtg 2220
aagaaaaatg tatttttcct aaatagaaat aaatgatccc attttttggg aaaaaaaaaa 2280
aaaaaaaaaa aaaaaaaaaa aa 2302
```

<210> 2082

<211> 1958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

1340

<222> (1724)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1843)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1850)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1864)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1875)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1907)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1911)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1936)
 <223> n equals a,t,g, or c

<400> 2082
 tcaccaacca tgcaaatgtg aatgagggca tsgttccay tkcgatgctg gttgccaacg 60
 atcagatggc gctgggcgca atgcgcgcca ttaccgagtc cgggctgcgc gttggtgcgg 120
 atatctcggg agtgggatac gacgataccg aagacagctc atgttatatc ccgccgttaa 180
 ccaccatcaa acaggatttt cgcctgctgg ggcaaacacg cgtggaccgc ttgctgcaac 240
 tctctcaggg ccaggcgggtg aaggggcaatc agctgttgcc cgtctcactg gtgaaaagaa 300
 aaaccaccct ggcgcccaat acgcaaacgg cctctccccg cgcgttgggc gattcattaa 360
 tgcagctggc acgacagggt tcccgactgg aaagcgggca gtgagcgcaa cgcaattaat 420
 gtgagttagc tcaactcatta ggcaccccag gctttacact ttatgcttcc ggctcgtatg 480
 ttgtgtggaa ttgtgagcgg ataacaattt cacacaggaa acagctatga ccatgattac 540
 gccaaagctct aatacgactc actataggga aagctgttac gcctgcaggt accgggtccgg 600
 aattccccgg tcgaccacac cgtccgaccg aaacggacac ggactgaatg ttacttttcc 660
 tcctctccta agtggaaacg acttccaaac agttgaggaa ggcagtaatg tgaagttggg 720

1341

```

ttgcaatgtg aaagccaacc cccaggctca aatgatgtgg tacaaaaaca gtagtctcct 780
cgatttagag aaaagccgtc accaaatcca acagacaagt gagtcttttc agctgtcaat 840
caccaaagtc gagaagcctg acaacggaac ctacagttgt attgcaaagt catctctgaa 900
aacggagagc ttggactttc acctgattgt taaagataaa actgtgggtg taccaataga 960
gccattatt gctgcatgtg ttgtgatctt tctgacattg tgctttggac tgattgctag 1020
aagaaagaaa ataatgaagc tctgcatgaa ggataaagac cctcacagtg aaacagctct 1080
atgagaaagc tgagatgcca tcgaatacag agagagtttt gcacacaggac ctccacaatt 1140
tatgtagtcc catctgtatt tattgctatt attaaattca ctctgtcac tcctgtttca 1200
ttaatcactt aacagtagtt gktaggacta atttgataca cttgtggaac atttttatgg 1260
aaagagctat taagaatgaa aagtaagatt ttgttaagtc ttctccttga agtatatgtt 1320
aattaattga gatttgttcc aaatagggtg gtaatcattt actgtttagt gtgttttttt 1380
tctaggtagg agatacttgg gtctcacaaa ttggtgcaaa gccaaaaaaa aaaaaaaaag 1440
ggcgccgct ctagaggatc caagcttacg tacgcgtgca tgcgacgtca tagctcttct 1500
atagtgtcac ctaaattcaa ttcactggcc gtcgttttac aacgtcgtga ctgggaaaac 1560
cctggcggtta cccaacttaa tcgccttgca gcacatcccc ctttcgccag ctggcgtaat 1620
agcgaagagg ccgcaccga tcgcccctcc caacagttgc gcagcctgaa tggcgaatgg 1680
gacgcgccct gtagcggcgc attaaagcgc gcgggtgtgg tggntacgcg cagcgtgacc 1740
cgctacactt gccagcgccc tagcgcccg ctttcgctt tcttcccttc ctttcttgcc 1800
acgttcgccc ggctttcccc gtcaagctct aaatcgggg ctncccttan ggttccatt 1860
tagngcttta ccggnacctt gaccccaaaa aaacttggat taaggngaa nggttcacgt 1920
aatggggcc cattgncctt gatagaacgg gttttttt 1958

```

<210> 2083

<211> 1247

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1244)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1247)

<223> n equals a,t,g, or c

<400> 2083

```

tcgaaattaa cctcactaa agggaacaaa agctggagct ccaccgcggt ggcgccgct 60
ctagaactag tggatcccc gggctgcagg aattcggcac gagccgcgt cctgcctcct 120
gccccagcag gcaggaagaa tgggggctga cctctacctt ggtgctcaag agagaggccc 180
cagctggcag ggaccagaa gagcctggag atgttgggtg tggagacccc aactctgatc 240
agggaactccc tgtgctgatg actcagggaa cagaggacct aaagggccca ggacaaaggt 300
gtgagaatga gccactgctg gacctgttg gccctgagcc tctggggcct gagagtcagt 360
caggaaggag agacatggtg gagatggcca cacggttttg gtccacctg cagctagacc 420
tgaaaaaggg gaaggagagt ctgttggaga agaggctggg ggcagaggag gaaggagacg 480
aagaggaggt ggaaggagat ggccccagca gctgctcgga ggacgattac agtgagctgc 540
tgaggagat cacagacaac ctgacgaaga aggagattca gatagagaag atccatttgg 600
acacrtcttc cttcrtggag gagctgcctg gagagaagga cttgcccac gtggtagaga 660
tctatgactt tgaaccagcg ctcaagacgg aggacctgct ggcaacgttt tctgagttcc 720
aagagaaggg gttcaggatt cagtgggtgg atgatactca cgcactcggc atctttccct 780

```

1342

```

gcckggcctc agctgcgga gacctgaccc gggagttctc ggtgctcaag atccggcccc 840
tcacrcaggg aaccaagcag tcaaagctca aagccttgca gaggccaaaa ctctgcgctc 900
tggtgaagga gaggccacag acaaatgcga ctgtggcccc gcggtctgggtg gcccgggccc 960
tgggactcca acacaaaaag aaagagcggc ctgctgtccg gggctccgctg ccgccctgag 1020
gcctggagac ccaactggcc tggatctgcg tcccgcgta gctggcgccc ccaacaccat 1080
aagccttcac agacgccaga gcagccccgc accaccctcg agcttcacca tggggtgtgg 1140
tgggcttttag tttagtccca gaaatggaga aaaaataaaa actcacgttg ttctaattgtg 1200
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggncn 1247

```

<210> 2084

<211> 2129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1705)

<223> n equals a,t,g, or c

<400> 2084

```

tagaactagt ggatcccccc ggsctgcagg aattccggtc gtcggtctgt gcattattgg 60
ctggttcttg tttagccccg cgctgtacgt tgattcctgg aatccgcac atgcaccgtt 120
cttcagtgcg gtaggttctt ccacgcctat gacgctgtgg gcttttcttg gtctggagtc 180
tgcgtgtgcg aatactgatg tagtggaana cccggaacgt aatgtgcca tcgcggtaact 240
cggcggtacg ttaggtgcgg cgggtgattta tatcgtctcc accaacgtga ttgccgggat 300
tgtgccaat atggagctgg caaattcaac ggcaccattt ggtctggcct tcgcgcagat 360
gttcacgcgg gaagtgggta aagtcattat ggcgctgatg gtgatgtcct gctgcgggtt 420
gctacttggc tggcagttca ccattgcccc ggtgtttaa tcttcatctg atgaaggcta 480
cttccctaaa attttctccc gtgtaaccaa agtggatgca ccggtgcagg gaatgttgac 540
cattgtgatt attcagagtg gattggcact gatgaccatt agcccgtcgc taaacagtc 600
gttcaacgtg ctggttaacc tggcgtgggc ttccagcgtt tcttcaaggc ggttgaaccg 660
aaatgggatc tgaanaacgga ytggaana atcagtgaat tcgccacccg tatgggttat 720
ccgatgcact acaacaacac ccaggagatc tgggatgagt tgcgtcatct gtgcccggat 780
ttctacggtg cgacttacga gaaaatgggc gaactgggct tcattcagtg gccttgccgc 840
gatacttcag atgccgatca ggggacttct tatctgttta aagagaagtt tgataccccg 900
aacggtcttg cgcagttctt caccctgcgc tgggtagcgc caatcgacaa actcaccgac 960
gagtacccca tgggtactgtc aacggtgcgt gaagtgggtc actactcttg ccgttcgatg 1020
accggttaact gtgcggyact ggcggcgctg gctgatgaac ctggctacgc acaaatcaat 1080
accgaagacg ccaaacgtct ggggtattgaa gatgaggcat tggtttgggt gcaactcgcgt 1140
aaaggcaaaa ttatcaccgc kgcgcaggte agcgatcgtc cgaacaaaagg ggcgatttac 1200
atgacctacc agtgggtgat tgggtgcctgt aacgagctgg ttaccgaaaa cttaagcccg 1260
attacgaaaa cgccggagta caaatactgc gccgttcgcg tcgagccgat cgccgatcag 1320
cgcgccgccg agcagtagct gattgacgag tacaacaagt tgaaaactcg cctgcgcgaa 1380
gcggcacttg cgtaataacg tcttttctac agcctccttt cggaggctgt ttttttatcc 1440
attcgaaactc tttatactgg ttactcccta cccaatcgta ttatcaaaaat gaaaaaaatt 1500
atcgacattga tgttgttttt gacattcttt gccacgcca acgactccga gcctggcagc 1560
cagtatttaa aggcagcaga ggccggggac cgacgcgcac aatattttct tgccgacagc 1620
tggttttagct ccggcgattt gagcaaaagg gaattattggg cacagaaaagc cgccgacagc 1680
ggtgatgctg atgcctgcgc gctgntggcg cagatcaaaa tcaccaatcc ggtcagtcctg 1740
gactatccac aagcaaaagt tcttgagag aaagcggcgc aagcgggcag taaagaaggt 1800
gaagtaacgc tggcgcatat tctggtaaat actcaagcgg gtaaacccga ttatccaaag 1860

```

1343

```

gcaatttcgc tgtagaaaa cgctcggaa gatctggaga acgactctgc cgtcgatgcc 1920
caaatgctgc ttggtttgat ttacgccaac ggcgtgggca ttaaggccga cgatgacaag 1980
gcaacctggt atttcaaacg cagctctgca atttcccgaa ccggttattc cgagtactgg 2040
gcgggccccg tacccaattc gccctatagt gagtcgtatt acaattcact ggccgctcgtt 2100
ttacaacgtc gtgactggga aaaccacag 2129

```

<210> 2085

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2085

```

ccacgcgtcc ggcattggtg tgtgcacctg tattctcagc ctcccaagta gctgggatta 60
cagtcaggca ccaccacacc cggctaattt tgtatttttt tagtagagac agggttttctc 120
catgtcggtc agggtagtcc cgaactcctg acctcaagtg atctgcctgc ctccggcctcc 180
caagtgcgtg gattacaggc gtgagccact gcaccacagc tagaatcttg tataatatgt 240
aattgtaggg aaactgctct cataggaaaag ttttctgctt tttaaatata aaaatacata 300
aaaatacata aaatctgatg atgaatataa aaaagtaacc aacctcattg gaacaagtat 360
taacattttg gaatatgttt tattagtttt gtgatgtact gttttacaat ttttaccatt 420
tttttcagta attactgtaa aatggtatta ttggaatgaa actatatattc ctcatgtgct 480
gatttgtctt atttttttca tactttccca ctggtgctat ttttatttcc aatggatatt 540
tctgtattac tagggaggca tttacagtcc tctaattgtg attaatatgt gaaaagaaat 600
tgtaccaatt ttactaaatt atgcagttta aaatggatga ttttatgtta tgtggatttc 660
atttcaataa aaaaaaactc ttatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa 788

```

<210> 2086

<211> 1350

<212> DNA

<213> Homo sapiens

<400> 2086

```

agtgggcggg ccattttctt ttctctctcc cgctctcgga agcttttcgtc tcgtgggtgc 60
gaaaggtaac cgaagcggct caggaaggca gctgtcactg agccctgga acagagcgag 120
agtatcgtaa gtaaccaggc tcagccggtt tctcaggccg ctctagtcaa ataaaccata 180
aagatcagac tcgggcttct tcaattcctt ctctccgtgg tttcggcatt agcttccggt 240
tccggggagg ggccgagttt tcttcgaaga tttggggctc cgcgatacag ttaggatggc 300
tgtagtacct ctgctgttgt tgggggggtt gtggagcgt gtgggagcgt ccagcctggg 360
tgtcgttact tgcggctccg tgggtgaagct actcaatacg cgccacaacg tccgactgca 420
ctcacacgac gtgcgctatg ggtcaggtag tgggcagcag tcagtacag gtgtaacctc 480
tgtggatgac agcaacagtt actggaggat acggggggaag agtgccacag tgtgtgagag 540
gggaaccccc atcaagtgtg gccagcccat ccggctgaca catgtcaaca ctggccgaaa 600
ctccatagt caccacttca cttcacctct ttctggaaac caggaagtga gtgcttttgg 660
tgagggaagg gaagggtgatt atctggatga ctggacagt ctctgtaatg gaccctactg 720
ggtgagagat ggtgagggtg ggttcaaaca ctcttccact gaggtactgc tgtctgtcac 780
aggagaacaa tatggtcgac ctatcagtgg gcaaaaagag gtgcatggca tggcccagcc 840
aagtcagaac aactactgga aagccatgga aggcattctc atgaagccca gtgagttgtt 900
gaaggcagaa gccaccatg cagagctgtg aatctagagg ctctgagcca ctgttaacgc 960
acaatgttca cagacatctg ttgctgcctc acctgggat ccctgccaca agttccttgg 1020
gcagtggcca tgtcaccatt gagatgaaga tatacaacag aaaatagtgg ctgtgtttgg 1080

```


1344

```

aagcttcagc cctgcacatt tgaactagtc actctcccag acttgcgtag gtcagttctt 1140
tctgagtaga ggacttgctg gtaaaggggc agatgctttt tattagtact gataaaacaa 1200
actgagggaa acatccctct tagctgggaa acttttactc ttcaggagct tggcatcatg 1260
gactgttaat gtatgtgatt ttccccctat tttctctctc caaaatgata aaaacaataa 1320
ttttaaaaaa aaaaaaaaaa aaactcgagg                                     1350

```

<210> 2087

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<400> 2087

```

gggggtgtgg agtatccatt gttttaatta gcatttctct agtgatatag ggtgttaagc 60
tccatttcat gttttttnt tttctctatt atctttgggtg atacatntgn tcagattttt 120
tgctnttttt taagattttt tctttattgt gtgntaagag ttcttggtat atttttagata 180
ccagtccttt ataagatgtg tttgacaaat attttctcct agtctgtggc ttgtcttttc 240
atttttttta aacagtgttt tacagagaag aaaaattttc aattttaatg aagtctacct 300
tatcaatttt ttctttatgg gtcattgatt tcgtgctgtg tttacaaata tattgccaaa 360
caagattttt ttcctcatta tctacaagtt ttacagtttt gaattgtatg tatagggtctg 420
tgatactttt tgagttaact tttgtgaaag ataaaagggtc agtgttggat agattatttt 480
tccttttgca tgtggttgct cagcaccatg aagactcttc cttctccact gaattgtctt 540
tgtacttttg ccaaagatca gatttacctc ttaaattctt gtcaaacctg tccacttctc 600
accatctcca ttttcaatct cttcggacgc gtgggaggac gcgtgggtcg acccgggaat 660
tccggaccgg tacctgcagg cgtaccagct ttccctatag tgagtcgtat tagagc 716

```

<210> 2088

1345

<211> 1424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1391)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1406)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1415)
 <223> n equals a,t,g, or c

<400> 2088
 gaattcggca cgagtggcta tatatttctt cacttgcaat tgccatcatgg gggtctttata 60
 aggctgaaat ccaataacgg atacaaaaat acttttaaaa gtaggcacatg atttctactg 120
 acagccatga gagagtttct agaactagac ctggatggcc ccaaacaact agaaaattgg 180
 acaaaaagata taataaaaaaa actgttttca accattggac agtagtcagc ataggactct 240
 tatctttgag agaaggggca aaaacaagat gatccctata agcttcctta atttcttttt 300
 tttctttttt tgagacgctg tctccaaaac aaaacaaaag aataggacaa tctcgtattt 360
 cctctatcta gactcaacaa ttcttaatat ttgctttatc cctgtctttc tacacatgca 420
 tacacataca cacacacagg catacataat tgcataattta cagggtgttt ttgctgatct 480
 atttgaaaat aagtttcaga cattatgaca cctactccta attcctcatg ttttttctaa 540
 gaataaggat attatcttac ctaacatatc ttttatcaaa cctacaaaaa ttaacaattt 600
 tataatcta attagttcat gtttaggttt tgccgtgttt cccccaatg tcttttacag 660
 tacatgtttt taaaaccagg atctaaggag ttcacagatt atatttgggt attatgtctc 720
 tttagtgtct tttggcatcc ttgggttttc tactttttatc ccccatgaca ctgactattg 780
 gaagagtcca gaccaatttt ctatttgatt gcttccytgt gtgtatcatt taatttggtc 840
 ctctatctca tgtgtttctt gtaaaactgaa agttagggtg agagattgag tctaaatatt 900
 tttggcaagt atatgtcgtg ggtaacattt gtgctttata ctgcatcata ttggggagata 960
 aataatatta tattgccatc tctgttagtg cagccattag aaagacattg tgccatgtgc 1020
 tgtctctttg ctgtgttttg tatctgttga gagccatatt tttataaaaa tcttaaaagca 1080
 ttgtcctctg tgaagaaaaa atattagaaa aattacactt gacagtataa gaattgttga 1140
 tttgaataaa tacatgattt ttagaagaca tatgtatgac cagcaggaat agtagcctaa 1200
 taggcctttg tttgggacag aatacacttc agatcatcca gaaatctaaa atcaggcctg 1260
 tgtgcctttg actggtatct tccatgtggt gttgaagagt ttgagaattt aaaagaaaaa 1320
 gaattaatac taagcaagac acactttttt ctttgttcct taataaaaaa aaaaaaaaar 1380
 actcgagggg ncccttggtg cccganctca agggngcata gtcg 1424

<210> 2089
 <211> 1226
 <212> DNA
 <213> Homo sapiens

<220>

1346

<221> misc feature
 <222> (164)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1180)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1197)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1215)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1221)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1224)
 <223> n equals a,t,g, or c

<400> 2089
 ggcacgagcg gcggtgggtca atgcgttcta ctccccaaac cgaaaccaga ttgtattccc 60
 tgccggggtc ctccagcccc ctttcttcag caaggagcag ccacaggcct tgaactttgg 120
 aggcattggg atggtgatcg ggcacgarat cacgcacggc tttnacgaca atggccggaa 180
 cttcgacaag aatggcaaca tgatggattg gtggagtaac ttctccaccc agcacttccg 240
 ggagcagtca gagtgcata tctaccagta cggcaactac tcctgggact ggcagacgaa 300
 cagaacgtga gcgctgccac cagcacccag gctgcggggg taccggagcc cyagccctgg 360
 ccctgagggg gaggggaagtc agggccgggg ctgccccaat cctgtctcct gtgcgcagtg 420
 aacggattca acacccttgg ggaaaacatt gctgacaacg gaggggtgcg gcaagcctat 480
 aaggcctacc tcaagtggat ggcagagggt ggcaaggacc agcagctgcc cggcctggat 540
 ctcacccatg agcagctctt cttcatcaac tatgccaggg tgggtgctgg gtccctaccg 600
 cccgagttcg ccatccaatc catcaagaca gacgtccaca gtccctgaa gtacagggta 660
 ctgggggtcg tgcagaacct ggccgccttc gcagacacgt tccactgtgc ccggggcacc 720
 cccatgcacc ccaaggagcg atgcgcgtg tggtagccaa ggccctgccg cgctgtgctg 780
 cccacgcccc cccgctgctc ggaggcatct gtgcgaaggc gcagctagcg ggcaccagt 840
 gtacgtcccc cccggcccaa ccatgccaa cctgcctgcc aggcctctgc gcctggccta 900
 ggggtgcagcc acctgcctga caccagggg tgagcagtg ccagtgcagt acctggaccg 960
 gagccccctc cacagacacc cgcggggctc agtgcctccg tcacagctct gtagagacaa 1020
 tcaactgtgt cctgccacc ctccaagggt cattgtcttc cagtatctac agcttcagac 1080
 ttgagctaag taaatgcttc aaagaaaaaa aaaaaaaaac tcgagggggg ccggacccaa 1140
 tygccttagg agcgatacat tcattggcgc gttwaacgcn gactggaaac ctgggtacca 1200
 cttatcgctt gaganatccc nttnc 1226

1347

<210> 2090
 <211> 1632
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1602)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1616)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1617)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1628)
 <223> n equals a,t,g, or c

<400> 2090
 ggccctgtggc tgtnggccgc gtgcgggtga ccgccgaggg ccgaracatg gttctgcaga 60
 cgaccaaggg gctgcggctt ctctttgatg gcgatgccca cctcctcatg tccatcccca 120
 gcccttccg tggacggctc tgtggcctct gtgggaactt caatggcaac tggagtgcag 180
 actttgtcct gcccaatggc tcagcagcgt ccagtgtgga gaccttcggg gctgcatggc 240
 ggggccccgg ctcctccaag ggctgtggcg agggctgcgg gcccgaaggc tgcccagtg 300
 gcttggcaga ggagactgca ccctatgaga gcaacgaggc ctgcgggcag ctccggaacc 360
 cccagggccc cttcgcgacc tgccaggcgg tgctgagtcc ctctgagtac ttccgccaat 420
 gcgtatacga cctgtgcgcg caaaaggggtg acaaagcctt cctgtgccgc agcctggcag 480
 cctacacggc ggctgtcag gcagctggcg tggccgtgaa gccctggagg acagacagct 540
 tctgcccgcct ccattgcccc gccacagcc actactccat ctgcactcgc acctgccagg 600
 gatecctgtgc ggctctctcc ggccctcaccg gctgcaccac ccgctgtttt gagggtgtgt 660
 agtgcgacga ccgyttcctg ctttcccagg gtgtctgcat ccctgtccaa gattgtggct 720
 gcacccataa tggccgatac ttgccggtaa actcctccct gctgacctca gactgcagcg 780
 agcgtgttc ctgttccctca agctctggcc tgacatgccca ggcagctggc tgcccaccag 840
 gccgtgtatg tgaggtcaag gctgaagccc ggaactgctg ggccaccctg ggtctctgtg 900
 tcctgtctgt ggggtccaac ctcaccacct ttgatggggc ccgtgggtgcc accacctctc 960
 ctgggtgtcta tgagctctct tcccgtgcc caggactaca gaataccatc ccctggtacc 1020
 gtgtagtgtc cgaagtccag atctgccatg gcaaaacgga ggctgtgggc cagggtccaca 1080
 tcttcttcca ggatgggatg gtgacgttga ctccaaacaa ggggtgtgtg gtgaatggtc 1140

1348

```

tccgagtgga tctcccagct gagaagttag catctgtgtc cgtgagtcgt acacctgatg 1200
gtcctcctgct agtccgccag aaggcagggg tccagggtgtg gcttggagcc aatgggaagg 1260
tggtctgtgat tgtcagcaat gaccatgctg ggaaactgtg tggggcctgt ggaaactttg 1320
acggggacca gaccaatgat tggcatgact cccaggagaa gccagcgatg gagaaatgga 1380
gagcgcagga cttctcccca tgttatggct gatcagtcac ccaccaggaa cgaagatttc 1440
ctgaagaaga cctggtccct ctggagggtg crgtggctga aggatgcatc atgtgctcct 1500
accctgctct accgcttttc tgggtcacag aggccaaatg tgagagcatt gaataaatat 1560
cttaagctaa aaaaaaaaaa raaaaagggc cgataagggc anagggccct tggcannag 1620
attcccgnnt cc 1632

```

<210> 2091

<211> 2429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2406)

<223> n equals a,t,g, or c

<400> 2091

```

tcgccagctc gaaattaacc ctactaaaag ggaacaaaag ctggagctcc accgcggtgg 60
cggccgctct agaactagtg gatcccccg gctgcaggaa ttccggcacga gtaactgcaa 120
tctggaagat ttggataatt ggacagcact tatactctgca tcgaaagaag ggcatgtgca 180
catcgtagag gaactactga aatgtggggg taacttggag caccgtgata tgggaggatg 240
gacagctctt atgtgggcat gttacaaagg cgtactgac gtagtagagt tgcttctttc 300
tcatggtgcc aatccaagtg tctactggtc gtacagtgtt tacccaatca tttgggcagc 360
agggagaggc catgcagata tagttcatct tttactgcaa aatggtgcta aagtcaactg 420
ctctgataag tatggaacca cccctttagt ttgggctgca cgaaagggtc atttggaatg 480
tgtgaaacat ttattggcca tgggagctga tgtggatcaa gaaggagcta attcaatgac 540
tgcacttatt gtggcagtga aaggaggtta cacacagtca gtaaaagaaa ttttgaagag 600

```

1349

```

gaatccaaat gtaaacttaa cagataaaga tggaaataca gctttgatga ttgcatcaaa 660
ggaggggacat acgggagattg tgcaggatct gctcgacgct ggaacatatg tgaacatacc 720
tgacaggagt ggggatactg tgttgattgg cgctgtcara ggtgggtcatg ttgaaattgt 780
tcgagcgctt ctccaaaaat atgctgatat agacattaga ggacaggata ataaaactgc 840
tttgtattgg gctgttgaga aaggaaatgc aacaatgggtg agagatatct tacagtgcaa 900
tcctgacact gaaatatgca caaaggatgg tgaaacgccca cttataaagg ctaccaagat 960
gagaaacatt gaagtgggtg agctgctgct agataaagggt gctaaagtgt ctgctgtaga 1020
taagaaagga gatactycct tgcataattgc tattcgtgga aggagccgga aactggcaga 1080
actgctttta agaaatccca aagatgggcg attactttat aggcccaaca aagcaggcga 1140
gactccttat aatattgact gtagccatca gaagagtatt ttaactcaa tatttgagc 1200
cagacacttg tctcctactg aaacagacgg tgacatgctt ggatatgatt tatatagcag 1260
tgccctggca gatattctca gtgagcctac catgcagcca cccattttgtg tggggttata 1320
tgcacagtgg ggaagtggga aatctttctt actcaagaaa ctagaagacg aaatgaaaac 1380
cttcgccgga caacagattg agcctctctt tcagttctca tggctcatag tgtttcttac 1440
cctgctactt tgtggagggc ttggtttatt gtttgcttc acggtccacc caaatcttgg 1500
aatagcagtg tcactgagct tcttggctct cttatatata ttctttattg tcatctactt 1560
tgggtggacga agagaaggag agagttggaa ttgggcctgg gtcctcagca ctagattggc 1620
aagacatat tggatatttg aactcctcct taaattgatg tttgtgaatc cacctgagtt 1680
gccagagcag actactaaag ctttacctgt gaggtttttg tttacagatt acaatagact 1740
gtccagtgtg ggtggagaaa cttctctggc tgaaatgatt gcaaccctct cggatgcttg 1800
tgaaagagag tttggctttt tggcaaccag gctttttcga gtattcaaga ctgaagatac 1860
tcagggtaaa aaaaaaaaaa aaaactcgag ggggggccccg gtacccaatt cgccctatag 1920
tgagtcgtat tacaattcac tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg 1980
cgttacccaa cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga 2040
agaggcccg accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggcaaat 2100
tgtaagcgtt aatattttgt taaaattcgc gttaaatttt tgttaaatca gctcattttt 2160
taaccaatag gccgaaatcg gcaaaatccc ttataaatca aaagaataga ccgagatagg 2220
gttgagtgtt ggtccagttt ggaacaagag tccactatta aagaacgtgg acttcaacgt 2280
caaaagggcg aaaaaccgt ntatcanggc gatggccac tacgtggaac cattaccctt 2340
aatcaaggtt tttttggggg tcnaaggtgc ccntaaaggc acttaaaatc ggggaccccc 2400
ttaaanggga gccccccga ttttaaaaa 2429

```

<210> 2092

<211> 902

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (864)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (894)

<223> n equals a,t,g, or c

1350

<400> 2092

```

tctaatacga ctcactatag ggaaagctgg tacgcctgca ggtaccgggc cggaattccc 60
gggtcgaccc acgcgtccgc ccaagctcat ggtttgccca cgggcaccca ctgtacacac 120
gcctgcccc cagcgccctg caagttctgt cggcccaggg gactcaggcg ttgcaggcag 180
cccagaggag cgcccagtgg gcaataaacc gagtggcgat ggagatccag cacagatcgc 240
acgagtgcgc aggatctggg cgccccaggc ctcaagctct cctccaggac ccacctgagc 300
cagggccgtg cggcgagagg cgtccgagca ctgccaatgt gacgcggggc caccggccgca 360
tcgtgggggg cagcgcgggc cgccccgggg cctggccctg gctgggtgagg ctgcagctcg 420
gcgggcagcc tctgtgcggc ggcgtyctgg tagcggcctc ctgggtgctc acggcagcgc 480
actgctttgt aggcgccccg aatgagcttc tgtggactgt gacgctggca gagggggtccc 540
gggggggagca agcggaggag gtgccagtga accgcacctt gccccacccc aagtttgacc 600
cgcggacctt ycacaacgac ctggccctgg tgcacctgtg gacgcgggtg acccggggggg 660
atcggcgcg cccgtgtgcc tgcccaggag ccccaggagc cccctgccgg aaccgsetgs 720
gccatcgcg gctggggcgc cctyttcgaa gacgggcctk aggctkaagc artgagagag 780
gcccstgttc ccctgstcag caccgacacc tgccgaagag ccctgggggc cggngtcgc 840
cccagcacca tgctctgcgc cganacctgg cggcgggcgt tgactcgtgc cagngtgact 900
cg 902

```

<210> 2093

<211> 1815

<212> DNA

<213> Homo sapiens

<400> 2093

```

gcgtggatcc aagatggcga cggcgatgga ttggttgccg tggctctttac tgcttttctc 60
cctgatgtgt gaaacaagcg ccttctatgt gcctgggggc gcgcctatca acttccacca 120
gaacgatccc gtagaaatca aggctgtgaa gctcaccagc tctcgaaccc agctacetta 180
tgaatactat tcaactgccct tctgccagcc cagcaagata acctacaagg cagagaatct 240
gggagagggt ctgagagggg accggattgt caacaccctt tccaggttc tcatgaacag 300
cgagaagaag tgtgaagttc tgtgcagcca gtccaacaag ccagtgaccc tgacagtgga 360
gcagagccga ctcggtggccg agcggatcac agaagactac tacgtccacc tcattgctga 420
caacctgcct gtggccaccc ggctggagct ctactccaac cgagacagcg atgacaagaa 480
gaaggaaaagt gatatcaaat gggctctcgc tgggacactt acctgaccat gagtgcgtc 540
cagatccact ggttttctat cattaactcc gttgttgtgg tcttcttctt gtcagggtatc 600
ctgagcatga ttatcattcg gaccctccgg aaggacattg ccaactacaa caaggaggat 660
gacattgaag acaccatgga ggagtctggg tggaaagttg tgcacggcga cgtcttcagg 720
ccccccccag taccatga tcctcagctc cctgctgggc tcaggcattc agctgttctg 780
tatgatcctc atcgatcctt ttgtagccat gcttgggatg ctgtcgccct ccagccgggg 840
agctctcatg accacagcct gcttctctt catgttcatg ggggtgtttg gcggattttc 900
tgctggccgt ctgtaccgca ctttaaaagg ccacgggtgg aagaaaggag ctttctgtac 960
ggcaactctg taccctggtg tggtttttgg catctgcttc gtattgaatt gcttcatttg 1020
gggaaagcac tcatcaggag cggtgccctt tcccaccatg gtggctctgc tgtgcatgtg 1080
gttcgggatc tccctgcccc tcgtctactt gggctactac ttcggcttcc gaaagcagcc 1140
atatgacaac cctgtgcgca ccaaccagat tccccggcag atccccgagc agcgggtggta 1200
catgaaccga tttgtgggca tcctcatggc tgggatcttg cccttcggcg ccatgttcat 1260
cgagctcttc ttcattctca gtgctatctg ggagaatcag ttctattacc tctttggctt 1320
cctgkctcct gttttcatca tcctgggtgt atcctgttca caaatcagca tcgtcatggg 1380
gtacttccag ctgtgtgcag aggattaccg ctgggtgggtg agaaatttcc tagtctccgg 1440
gggctctgca ttctacgtcc tggtttatgc catcttttat ttcgttaaca agtgactgca 1500
gcgccaaagc gcatccacca agcatcaagt tggagaaaag ggaaccaag cagtagagag 1560

```

1351

```

cgatattgga gtcttttgtt cattcaaatac ttggattttt ttttttccct aagagattct 1620
cttttttaggg ggaatgggaa acggacacct cataaagggt tcaaagatca tcaatttttc 1680
tgacttttta aatcattatc attattattt ttaattaaaa aaatgcctgt atgccttttt 1740
ttggtcggat tgtaaataaa tataaccattg tcctacaaaa aaaaaaaaaa aaaaaaactt 1800
ctcggccgca aggaa 1815

```

<210> 2094

<211> 5459

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3960)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3961)

<223> n equals a,t,g, or c

<400> 2094

```

accaattccc ttcttgggag ttgcggcttc cctcgtcggg ccccaactccc gtttaccctt 60
tccccagctc ccgccttagc caggggcttc cccgcctgcc gctagggctc gggccgaagc 120
gccgctcagc gccagcctgc cgctccccgg gctccacttt cactttcggg cctgggggar 180
ctargccggm ggcagtgggtg gtggcggcgg cgcaagggtg agggcggccc cagaaccca 240
ggtaggtaga gcaagaagat ggtgtttctg cccctcaaata ggtcccttgc aacctatgtca 300
tttctacttt cctcactgtt ggctctctta actgtgtcca ctcttcatg gtgtcagagc 360
actgaagcat ctccaaaacg tagtgatggg acaccatttc cttggaataa aatacgactt 420
cctgagtacg tcatcccagt tcattatgat ctcttgatcc atgcaaacct taccacgctg 480
accttctggg gaaccacgaa agtagaaatc acagccagtc agcccaccag caccatcatc 540
ctgcatagtc accacctgca gatattctagg gccaccctca ggaaggagc tggagagagg 600
ctatcggaag aacccttgca ggtcctggaa caccctctc aggagcaaata tgcactgctg 660
gctcccgagc cctccttgtt cgggctcccc tacacagttg tcattcacta tgctggcaat 720
ctttcggaga ctttccacgg attttacaaa agcacctaca gaaccaagga aggggaactg 780
aggatactag catcaacaca atttgaacct actgcagcta gaatggcctt tccttgcttt 840
gatgaacctg ctttcaaagc aagttttctc atcaaaaatta gaagagagcc aaggcaccta 900
gccatctcca atatgccatt ggtgaaatct gtgactgttg ctgaaggact catagaagac 960
cattttgatg tctactgtgaa gatgagcacc tatctgggtg ccttcatcat ttcagatttt 1020
gagtctgtca gcaagataac caagagtggg gtcaagggtt ctgtttatgc tgtgccagac 1080
aagatgaatc aagcagatta tgcactggat gctgcgggtg ctcttctaga attttatgag 1140
gattattttca gcataccgta tcccctaccc aaacaagatc ttgctgctat tcccgaactt 1200
cagtctgggtg ctatggaaaa ctggggactg acaacatata gagaatctgc tctgttgttt 1260
gatgcagaaa agtcttctgc atcaagtaag cttggcatca caatgactgt ggcccatgaa 1320
ctggcccacc agtggttttg gaacctggtc actatggaat ggtggaatga tctttggcta 1380
aatgaaggat ttgccaaatt tatggagttt gtgtctgtca gtgtgacca tcctgaactg 1440
aaagtgtggag attatttctt tggcaaagt tttgacgcaa tggaggtaga tgctttaaat 1500
tcctcacacc ctgtgtctac acctgtggaa aatcctgctc agatccggga gatgtttgat 1560
gatgtttctt atgataaggg agcttgtatt ctgaatatgc taaggagta tcttagcgct 1620
gacgcattta aaagtgggat tgtacagtat ctccagaagc atagctataa aaatacaaaa 1680
aacgaggacc tgtgggatag tatggcaagt atttgccta cagatggtgt aaaagggatg 1740

```


1352

gatggctttt	gctctagaag	tcaacattca	tcttcatect	cacattggca	tcaggaaggg	1800
gtggatgtga	aaacatgat	gaacacttgg	acactgcaga	ggggttttcc	cctaataacc	1860
atcacagtga	gggggaggaa	tgtacacatg	aagcaagagc	actacatgaa	gggctctgac	1920
ggcgccccgg	acactgggta	cctgtggcat	gttccattga	cattcatcac	cagcaaatecc	1980
gacatgggtcc	atcgattttt	gctaaaaaca	aaaacagatg	tgctcatect	cccagaagag	2040
gtggaatgga	tcaaatttaa	tgtgggcatg	aatggctatt	acattgtgca	ttacgaggat	2100
gatggatggg	actctttgac	tggcctttta	aaaggaacac	acacagcagt	cagcagtaat	2160
gatcgggcaa	gtctcattaa	caatgcattt	cagctcgtca	gcattgggaa	gctgtccatt	2220
gaaaaggcct	tggattttatc	cctgtacttg	aaacatgaaa	ctgaaattat	gcccgtgttt	2280
caaggtttga	atgagctgat	tcctatgtat	aagttaatgg	agaaaagaga	tatgaatgaa	2340
gtggaaactc	aattcaaggc	cttcctcatc	aggctgctaa	gggacctcat	tgataagcag	2400
acatggacag	acgagggtc	agtctcagag	cgaatgctgc	ggagtgaact	actactcctc	2460
gcctgtgtgc	acaactatca	gccgtgcgta	cagagggcag	aaggctattt	cagaaagtgg	2520
aaggaatcca	atggaaactt	gagcctgcct	gtcgcagctga	ccttggcagt	gtttgtctgtg	2580
ggggcccaga	gcacagaagg	ctgggatttt	ctttatagta	aatatcagtt	ttctttgtcc	2640
agtactgaga	aaagccaaat	tgaatttgcc	ctctgcagaa	cccaaaataa	ggaaaagctt	2700
caatggctac	tagatgaaag	ctttaaggga	gataaaataa	aaactcagga	gtttccacaa	2760
attcttacac	tcattggcag	gaaccagta	ggatacccac	tggcctggca	atttctgagg	2820
aaaaactgga	acaaacttgt	acaaaagttt	gaacttggct	catcttccat	agcccatatg	2880
gtaatgggta	caacaaatca	attctccaca	agaacacggc	ttgaagaggt	aaaaggattc	2940
ttcagctcct	tgaaagaaaa	tggttctcag	ctccgttgtg	tccaacagac	aattgaaacc	3000
attgaagaaa	acatcggttg	gatggataag	aatttttgata	aaatcagagt	gtggctgcaa	3060
agtgaagagc	ttgaacgtat	gtaaaaatcc	ctcccttgcc	aggttcctgt	tatctctaata	3120
caccaacatt	ttgttgagtg	tattttcaaa	ctagagatgg	ctgttttggc	tccaactgga	3180
gatacttttt	tcccttcaac	tcattttttg	actatccctg	tgaaaagaat	agctgttagt	3240
ttttcatgaa	tgggcttttt	catgaatggg	ctategtctac	catgtgtttt	gttcatcaca	3300
ggtgttgccc	tgcaacgtaa	acccaagtgt	tgggttccct	gccacagaag	aataaagtac	3360
cttattcttc	tcattttata	gtttatgctt	aagcacccgt	gtccaaaacc	ctgtacccca	3420
tgtttatmat	tcataaaactg	tttcatcagt	ctcctcgaaa	gactctgaat	agtcgactac	3480
tgaacaatga	acacctggat	ctgagactaa	gccggacgat	gactgggtta	aagctctccc	3540
ggctcacccc	tccagaccgc	ctgcccatec	ctcttccttg	ctccatgccc	aggggctgac	3600
ttgtaaaggc	caagtcatca	agctttcttg	ccctttggat	gttgggtcagt	ggggagccgg	3660
agagctggag	ctggggctcg	aggaggtagt	agggtggagg	gttcttccct	gattcccttg	3720
cgggatgcct	cgggctggcc	tcccctgagg	gtcttagctc	cgagagggga	ccctcttttc	3780
cacacagcct	tctccacctc	tggatttttg	taactgctcc	ctcctcatcc	cttcaggatt	3840
agtggcctca	gtgggagtc	ggctttttact	agtcctggcg	gacttgtggt	ttctacataa	3900
tgtgctcgca	cttttgcaaa	aaatcttttt	atagaaccct	cctcagataa	ttctgagtgn	3960
ntcatctatt	tccctgactg	gtacagtatc	tcttctgaaa	aagcagagtg	cattcaagtc	4020
tgtaggaaaa	cccttttctt	agggaggtga	ttttttttct	ctctctgctt	cttatttggc	4080
ctactttaca	atttctaaact	aactagttat	tggcattttac	tgacagtata	ttattgtagt	4140
caccaataaa	tgatagtaca	ttgtgaaaca	aaatatttgc	tcatatttagc	aaataggaca	4200
ttctttggct	ttgaagtctt	tcttttgtga	agacttcaca	cacggttgct	tcagcacaca	4260
gttgctgctc	aggtttttatg	tatagatgat	aataatagaa	agcacagttt	actaacatgg	4320
taaaccaacg	gagttcaagt	caagtcagtt	aataccctaa	gaattagatt	ttatttctta	4380
ttctgaaaac	ttgctacaca	gggacttatac	taaccatag	tgtgctctgt	tgctgacttg	4440
attcaagttg	cagcgtgttt	tgcgctgact	ctaaggtgcg	gaaatcctca	cacctggcaa	4500
aggagaatcc	aaactgaact	ttttgaatat	aaggcaaaaa	cttcaagata	agggaatatg	4560
attgatgatt	ggtagcaaaa	atgtcaaaat	gtgttccccct	aatacacgac	aaaatagagt	4620
gacttctgga	cataaatctg	ccattttatta	aaccattcac	tacaacaaat	aaataggtat	4680
aaaagtggaa	ttggaatttt	tatacttatt	tgttgtagtg	aatggtttaa	taaaaataga	4740
aatcactggt	aattttccacc	ccaaactaaa	ctatttccct	tcttttataaa	aaatacacaa	4800

1353

```

ccaagatTTT aatgtaaaat atTTtgcttT aattgtatTT tatgccttga ttaatgaaac 4860
atggaaatat tgattttcag ttttggtcac ctgaggaacc tatctttggt tgcttttgga 4920
aaagcccatT ttctaaacag atacaatatt gccacaacaa tgtgcagaaa cttttttgat 4980
aataaaaaat tgTtctttTgc ctctaagtgg atatttgcaa ttattttctc tctcctaact 5040
agactgtaaa aagggtctgt ttagatcctg tagcttactc cagttattag ttattaacaa 5100
acaccCaagt ctCgaagata tttctaatta aaaaagaagg catattcaga gttcttttta 5160
aataaatgtt gtttactttt ataggcatct ttaaacttct ggattttggt atgccattta 5220
aaaatacttc cagatacaca tggaaattag taatactgca gccgtatcct tgcaaacaca 5280
tctgtcagtg tmaaaggTtt caaggTtttt cttaaaaaaa gaaaacaaaa aagcaarcac 5340
ctatastgcc caawtggggT ggttggtcac tggTtagaag tccctcgga aagtgttgtg 5400
cctgtctcgt tgccgcctaa gaatagatag tgaccatttc cgtggatagg gccagcatt 5459

```

<210> 2095

<211> 2085

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2062)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2065)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2084)

<223> n equals a,t,g, or c

<400> 2095

```

cgtccgcaac ggctcattct gctcccccggt gtcggagccc cccggagctg cgcgcggggt 60
tgcagcgctt cgcccgcgct gtcctcccggt tgtcccgctt ctcccgcccc cagccgcccc 120
ctgccagctt ttccggggccc cgagtcgcac ccagcgaaga gagcggggccc gggacaagct 180
cgaactccgg ccgcctcgcc ctcccccggt tccgctccct ctgccccctc ggggtcgcg 240
gcccacgatg ctgcagggcc ctggtctgct gctgctgctc ttctctgctt cgcaactgctg 300
cctggggtcg gcgcgcgggc tcttctctct tggccagccc gacttctctt acaagcgcat 360
caattgcaag cccatcccggt ycaacctgca gctgtgccac ggcacgaat accagaacat 420
gcggtctgcc aacctgctgg gccacgagac catgaaggag gtgctggagc aggccggcg 480
ttggatcccc ctgggtcatga agcagtgcca cccggacacc aagaagtctt tgtgctcgct 540
cttcgccccg gtctgcctcg atgacctaga cgagaccatc cagccatgcc actcgctctg 600
cgtgcagggtg aaggaccgct gcgccccggt catgtccgcc ttcggcttcc cctggccccga 660
catgcttgag tgcgaccgtt tccccagga caacgacctt tgcaccccc tcgctagcag 720
cgaccacctc ctgccagcca ccgaggaagc tccaaaggta tgtgaagcct gcaaaaaata 780
aaatgatgat gacaacgaca taatggaaac gctttgtaaa aatgattttg cactgaaaaat 840
aaaagtgaag gagataacct acatcaaccg agataccaaa atcatcctgg agaccaagag 900
caagaccatt tacaagctga acggtgtgtc cgaaagggac ctgaagaaat cgggtgctgtg 960
gctcaaagac agcttgacgt gcacctgtga ggagatgaac gacatcaacg cgccctatct 1020
ggtcatggga cagaaacagg gtggggagct ggtgatcacc tcggtgaagc ggtggcagaa 1080

```

1354

```

ggggcagaga gagttcaagc gcattctccc cagcatccgc aagctgcagt gctagtcccc 1140
gcattcctgat ggctccgaca ggcttgcctc agagcacggc tgaccatttc tgctccggga 1200
tctcagctcc cggtcccca gcacactcct agctgctcca gtctcagcct gggcagcttc 1260
cccctgcctt ttgcacgttt gcattccccag catttcctga gttataaggc cacaggagtg 1320
gatagctgtt ttcacctaaa ggaaaagccc acccgaatct tgtagaaata ttcaaactaa 1380
taaaatcatg aatattttta tgaagttaa aaatagctca ctttaaagct agttttgaat 1440
aggtgcaact gtgacttggg tctggttggg tggtgtttgt tggtttgagt cagctgattt 1500
tacttccca ctgaggttgt cataacatgc aaattgcttc aattttctct gtggcccaa 1560
cttggtgggtc acaaaccctg ttgagataaa gctggctgtt atctcaacat cttcatcagc 1620
tccagactga gactcagtgt ctaagtctta caacaattca tcattttata cttcaatgg 1680
gaacttaaac tgttacatgt atcacattcc agctacaata cttccattta ttagaagcac 1740
attaaccatt tctatagcat gatttcttca agtaaaaggc aaaagatata aattttataa 1800
ttgacttgag tactttaagc cttgtttaaa acatttctta ctttaactttt gcaaaattaa 1860
cccatgttag cttacctgta atatacatag tagtttacct ttaaaagttg taaaaatatt 1920
gctttaacca acactgtaaa tatttcagat aaacattata ttcttgata taaactttac 1980
atcctgtttt acctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaaa aaaaaaaaaa anaanaaaaa aaaaaaaaaa aaana 2085

```

<210> 2096

<211> 1781

<212> DNA

<213> Homo sapiens

<400> 2096

```

ggcagmgcc gcgctcccc gcgctccctc cccgactcct aagtccttcg gccgccacca 60
tgtccgctc ggctgtcttc attctggacg ttaagggcaa gccattgatc agccgcaact 120
acaagggcga tgtggccatg agcaagattg agcacttcat gcctttgctg gtacagcggg 180
aggaggaagg cgccctggcc ccgctgctga gccacggcca ggtccacttc ctatggatca 240
aacacagcaa cctctacttg gtggccacca catcgaagaa tgccaatgcc tccctgggtg 300
actccttct gtataagaca atagaggtat tctgcgaata cttcaaggag ctggaggagg 360
agagcatccg ggacaacttt gtcactcgtc acgagttgct ggacgagctc atggactttg 420
gcttcccga gascaccgac agcaagatcc tgcaggagta catcactcag cagagcaaca 480
agctggagac gggcaagtca cgggtgccac ccactgtcac caacgctgtg tcctggcgct 540
ccgaggggat caagtataag aagaacgagg tcttcattga tgtcatagag tctgtcaacc 600
tgctggtaa tgccaacggc agcgtccttc tgagcgaat cgtcgggtacc atcaagctca 660
aggtgtttct gtcaggaatg ccagagctgc ggctgggcct caatgaccgc gtgctcttcg 720
agctcactgg ccgcagcaag aacaaatcag tagagctgga ggatgtaaaa ttccaccagt 780
gcgtgcggct ctctcgcttt gacaacgacc gcaccatctc cttcatccc cctgatgggtg 840
actttgagct catgtcatac cgctcagca cccagggtcaa gccactgatc tggattgagt 900
ctgtcattga gaagttctcc cacagccgcg tggagatcat ggtcaaggcc aaggggcagt 960
ttaagaaaca gtcagtggcc aacggtgtgg agatatctgt gcctgtacc agcgatgccg 1020
actccccag attcaagacc agtgtgggca gcgccaagta tgtgccggag agaaacgtcg 1080
tgatttgagg tattaagtct ttccggggg gcaaggagta cttgatgcga gccactttt 1140
gcctccccag tgtggaaaag gaagaggtgg agggccggcc ccccatcggg gtcaagttt 1200
agatccccta cttcaccgtc tctgggatcc aggtccgata catgaagatc attgagaaaa 1260
gtggttacca ggccctgccc tgggttcgct acatcaccca gagtggcgat taccaacttc 1320
gtaccagcta gaagggagaa gagatggggg cttgaacacg gggcttcctt acagccccgg 1380
atgcagattt tagagggagg gcaggtgcgg gctgtgtgtg tctgtgtgag ggcaggtcct 1440
ggacttgga gtttcttgct cccagcacc gcccttccct cactcttcc ttattccata 1500
ggctgggaga gaaactctct ctgcttccct cgcccttgga gctttccca tccccctgat 1560
tttatatgaa gaaatagaag aggggcttga agtccccctc gcgagtgcct tcttgcaatt 1620

```

1355

```

acctgcctta gcggtgtgtg cgggtccctc cttcacagcc gctgagccca gaggtcccg 1680
tgccccctcc tctgaatttt aggatgtcat taaaaagatg aatctaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1781

```

<210> 2097

<211> 3095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3049)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3072)

<223> n equals a,t,g, or c

<400> 2097

```

gtggttgagg cctcccgagg gggctggctg tgggtgtccag cagctctcca gaggtgggtca 60
ggagctccct aaagtgcatt gaattggggc ttgggggtgtg ggagggacca aggggtaggc 120
tgctagcagc tgaagggtgtc gtaggttttt actaaagaac cttccactgt ctagagactt 180
gagagagagg aagagagaga gaggcctaga cgaacacaat cacatgtttt ctttgcctgt 240
cctcccgagg tgggcctgtt ttgggggttt ggactctgaa cccgagcggg gtcccttcgc 300
ttgactttga tcctggctct taaatgcctt tccccactcc cctcccgagg gtccaggggc 360
caagcggccc ctccctcagag cacgggcagc accgtctcct ggacccctgt gtgccagcct 420
ctgcagacgc agctgggtggg agggagcatg gattttggagg tggagaagtc actcctgggtc 480
ctcggagggg gtgggctgtg tgcctagtgc agtggtgactc ggggattggg gagggcggac 540
aggtttctga ggcctcccta gccttctttg taaattcaca cgagatagtc cagggccttc 600
cagcggccag cttggatgat aatcctcgtc tccccactc taaggcctcc ttgagatttc 660
tttgggggtc accacgtcct ctgcctgtct ccagggtggt caggagatgt ggttcctctc 720
cctctcctgg ctccctagaa cccccactt cccctccctg tagcttttagc tgaccccggtg 780
gtggtgggtg tggggtctgt gcgcgtgtc aggtaaagctt ggggggtcca ggtaagcggg 840
cccgtgtccc cccccggga agcccgccct ctcgccaggc ccccaggagt tgccgagccc 900
cccccatccc gtcgggtttg gacacccgca aggcgggcat cggtaaatgg cacccttttc 960
tcttctctgt gttgttattt ggggggggagc gggctkgggc ggggcagggt attacgggtg 1020
gttgaggaca gcccctagg ccagggtgtg gtgggggaac ggggactttt tggccttcat 1080
gacagcccca cgttgatcac aggcagggc ctcaggcttg cttctctgta cgcgctgccc 1140
gagagcagca gtgagcctct ccccgctct cctctacga ctcccccttc ctggcagggt 1200
caggctgggg tgcgctccca gcacgtgttg agccgggggt gtggagggcg agatggggca 1260
gggctggggg gaggcagagt cagtcgtctc aggtaaaggca gggattttca gtagcaccgc 1320
acggctcccc atgcttcctc cactgccccct ctcccgctgt gcagggggccc cgccaggccc 1380
cctgggagtg tataaccggc ctctctgctc cctgccattt cctgaagatt tctccacccc 1440
ccttctgggt cattttctgt tctgatgtct gttcccccca cactcacccc cctccaaaaa 1500
aaacaaaaaac agaaaaaac ggtgtgggtc ggggtgcgga gcgtcccagc tgggcctcct 1560
gccccggcct ggtgtctcag ggtgcatgct tgggggtgtg gagggagccc ctccccca 1620
gcagagtcga gcgtggagtt aaccttcagt ttctttgcag cgattttggc cgccctggcg 1680
ggaggggggt gttccatcat gtgggagagg aagggccggg gagcctaggg ggtggcgggt 1740
gaggggtggc gtctccccc accaggagtg gttggggcgc tgagaggaag cagacgctga 1800
gatggagcag gcccttcacc ggtttgggag aggggtgggtc tggctgtcag ttgcctgggt 1860

```

1356

```

gtctgttggg cgtgtgcgtg tgcgtgatga tggggacacg gggcggggat tctgtagagc 1920
tgggcctgtc ctgactagag gaccctcttg ggactcctct cccctcccc tccccacatc 1980
tgttacagcc gcttacaaac acgcagatgg caagaagatt gatggcagga gggtccttgt 2040
ggacgtggag agggggccgaa cctggaaggg ctggaggccc cggcgggctag gaggaggcct 2100
cgggtggtacc agaagaggag gggctgatgt gaacatccgg cattcaggcc gcgatgacac 2160
ctcccgtac gatgagaggc ccggccccctc cccgcttcctg cacagggacc gggaccggga 2220
ccgtgagcgg gagcgcagag agcggagccg ggagcgagac aaggagcgag aacggcgacg 2280
ctcccgtcc cgggaccggc ggaggcgctc acggagtcgc gacaaggagg agcggaggcg 2340
ctccaggag cggagcaagg acaaggaccg ggaccggaag cggcggaagca gccggagtcg 2400
ggagcgggcc cggcgggagc gggagcgcaa ggaggagctg cgtggyggcg gtggcgacat 2460
ggcggagccc tccgaggcgg gtgacgcgcc ccctgatgat gggcctccag gggagctcgg 2520
gcctgacggc cctgacggtc cagaggaaaa gggccgggat cgtgaccggg agcgacggcg 2580
gagccaccgg agcgagcgcg agcggcgccg ggaccgggat cgtgaccgtg accgtgaccg 2640
cgagcacaaa cggggggagc ggggcagtga gcggggcagg gatgaggccc gaggtggggg 2700
cgggtggccag gacaacgggc tggagggtct gggcaacgac agccgagaca tgtacatgga 2760
gtctgagggc ggcgacggct acctggctcc ggagaatggg tatttgatgg aggtgcgcc 2820
ggagtgaaga ggtcgtcctc tccatctgct gtgtttggac gcgttcctgc ccagccccct 2880
gctgtcatcc cctcccccaa ccttggccac ttgagtttgt cctccaaggg taggtgtctc 2940
atttgttctg gcccttgga tttaaaaata aaattaattt cctgttrawa aaaaaaaaaa 3000
aaaaaaaaaa aaaaggagag ccgctcttag aggatccctc cgagggggnc ccaagcttta 3060
cgcgtggcat gncgaagtca aaagcccttt ccccc 3095

```

<210> 2098

<211> 1414

<212> DNA

<213> Homo sapiens

<400> 2098

```

tatagaagta cgctgcagta ccgttcggga attcccgtc gaccacaggk cgggctggcg 60
tcccccttcc ggccggtccc catggaggcg ctggggaagc tgaagcagtt cgatgcctac 120
cccaagactt tggaggactt ccgggtcaag acctcgggg gcgccaccgt gaccattgtc 180
agtggccttc tcatgctgct actgttcctg tccgagctgc agtattacct caccacggag 240
gtgcatcctg agctctacgt ggacaagtgc cggggagata aactgaagat caacatcgat 300
gtactttttc cgcacatgcc ttgtgcctat ctgagtattg atgccatgga tgtggccgga 360
gaacagcagc tggatgtgga acacaacctg ttcaagcaac gactagataa agatggcatc 420
ccggtgagct cagaggctga gcggcatgag cttgggaaaag tcgaggtgac ggtgtttgac 480
cctgactccc tggacctga tcgctgtgag agctgctatg gtgctgaggc agaagatata 540
aagtgtctga acacctgtga agatgtgcgg gaggcataat gccgtagagg ctgggccttc 600
aagaaccag atactattga gcagtgcgg cgagagggtc tcagccagaa gatgcaggag 660
cagaagaatg aaggctgcca ggtgtatggc ttcttggaag tcaataagggt ggccggaac 720
ttccactttg cccctgggaa gagcttcag cagtcctatg tgcacgtcca tgacttgag 780
agctttggcc ttgacaacat caacatgacc cactacatcc agcacctgtc atttggggag 840
gactatccag gcattgtgaa cccctggac cacaccaatg tactgcgcc ccaagcctcc 900
atgatgttcc agtactttgt gaagggtggtg cccactgtgt acatgaagggt ggacggagag 960
gtactgagga caaatcagtt ctctgtgacc agacatgaga aggttgccaa tgggctgttg 1020
ggcgaccaag gccttcccg agtcttcgtc ctctatgagc tctcgcccat gatggtgaag 1080
ctgacggaga agcacaggtc cttacccac ttctgacag gtgtgtgcgc catcattggg 1140
ggcatgttca cagtggctgg actcatcgat tcgctcatct accactcagc acgagccatc 1200
cagaagaaaa ttgatctagg gaagacaacg tagtcaccct cgggtgcttc tctgtctcct 1260
ctttctccct ggctgtgggt tgtccccag cctctgccac cctccacctc ctcggtcagc 1320
cccagcccca ggttgataaa tctattgatt gattgtgata gtaaaaaaaaa aaaaaaaaaa 1380

```

1357

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa

1414

<210> 2099

<211> 2171

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<400> 2099

ggatancaat	tttcacncag	naancagcta	tgncatgat	tacgccaagc	tttaatacga	60
ctcactatag	ggaaagctgg	tacgcctgca	ggtaccggtc	cggaattccc	gggtcgaccc	120
acgcgtccgc	cagcaccaca	gtgccaggcc	ttagtgagga	atctaccacc	ttctacagca	180
gcccaggctc	aactgaaacc	acagcgtttt	ctcacagcaa	cacaatgtcc	attcatagtc	240
aacaatctac	acccttccct	gacagcccag	gcttcactca	cacagtgtta	cctgccaccc	300
tcacaaccac	agacattggg	caggaatcaa	cagccttcca	cagcagctca	gacgcaactg	360
gaacaacacc	cttacctgcc	cgctccacag	cctcagacct	tggttgagaa	cctacaactt	420
tctacatcag	cccateccct	acttacacaa	cactctttcc	tgcgagtcc	agcacatcag	480
gcctcactga	ggaatctacc	accttccaca	ccagtccaag	cttcacttct	acaattgtgt	540
ctactgaaag	cctggaaacc	ttagcaccag	ggttggtgcca	ggaaggacaa	atttggaatg	600
gaaaacaatg	cgtctgtccc	caaggctacg	ttgggttacca	gtgcttgctc	cctctggaat	660
ccttcctgtg	agaaaccccg	gaaaaactca	acgccacttt	aggtatgaca	gtgaaagtga	720
cttacagaaa	tttcacagaa	aagatgaatg	acgcctcctc	ccaggaatac	cagaacttca	780

1358

```

gtaccctctt caagaatcgg atggatgtcg ttttgaaggg cgacaatctt cctcagtata 840
gaggggtgaa cattcggaga ttgctcaacg gtagcatcgt ggtcaagaac gatgtcatcc 900
tggaggcaga ctacacttta gagtatgagg aactgtttga aaacctggca gagattgtaa 960
aggccaagat tatgaatgaa actagaacaa ctcttcttga tcctgattcc tgcagaaagg 1020
ccatactgtg ctatagttaa gaggacactt tcgtggattc atcgggtgact ccgggctttg 1080
acttccagga gcaatgcacc cagaaggctg ccgaaggata taccagttc tactatgtgg 1140
atgtcttgga tgggaagctg gcctgtgtga acaagtgcac caaaggaacg aagtcgcaaa 1200
tgaactgtaa cctgggcaca tgtcagctgc aacgcagtgg ccccgctgc ctgtgccaa 1260
atacgaacac acactggtac tggggagaga cctgtgaatt caacatcgcc aagagcctcg 1320
tgtatgggat cgtgggggct gtgatggcgg tgcctgtgct cgcattgatc atcctaata 1380
tcttattcag cctatcccag agaaaaacggc acagggaaca gtatgatgtg cctcaagagt 1440
ggcgaaagga aggcacccct ggcatcttcc agaagacggc catctgggaa gaccagaatc 1500
tgaggagag cagattcggc cttgagaacg cctacaacaa cttccggccc accctggaga 1560
ctggtgactc tggcacagag ctccacatcc agaggccgga gatggtagca tccactgtgt 1620
gagccaacgg gggcctccca ccctcatcta gctctgttca ggagagctgc aaacacagag 1680
cccaccacaa gcctccgggg cgggtcaaga ggagaccgaa gtcaggccct gaagccggtc 1740
ctgctctgag ctgacagact tggccagtc cctgcctgtg ctctgctgg ggaaggctgg 1800
gggctgtaag cctctccatc cgggagcttc cagactccca gaagcctcgg caccctgtc 1860
tcctcctggg tggctcccca ctctggaatt tcctaccaaa taaaagcaaa tctgaaagct 1920
caaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 1980
gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtc gttttacaac 2040
gtctgactgg gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atnccccctt 2100
ygccagctgc gtaatagcra agaggsccgs accgatcgcc cttccaacag ttgcgcagcc 2160
tgaatggcga a 2171

```

<210> 2100

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 2100

```

gcgagcgcgt gggcagcccc ggccgctgcc cttgggtgct cccttccctg cccgacaccc 60
agaccgacct tgaccgcca cctggcagga gcaggacagg acggccggac gcggccatgg 120
ccgagctccc ggggcccttt ctctgcgggg ccctgctagg ctctctgtgc ctgagtgggc 180
tggccgtgga ggtgaaggta cccacagagc cgctgagcac gccctgggg aagacagccg 240
agctgacctg cacctacagc acgtcgggtg gagacagctt cgccctggag tggagctttg 300
tgcagcctgg gaaacccatc tctgagtcct atccaatcct gtacttcacc aatggccatc 360
tgtatccaac tggttctaag tcaaagcggg tcagcctgct tcagaacccc cccacagtgg 420
gggtggccac actgaaactg actgacgtcc acccctcaga tactggaacc tacctctgcc 480
aagtcaacaa cccaccagat ttctacacca atgggttggg gctaataaac cttactgtgc 540
tggttcccc cagtaatccc ttatgcagtc agagtggaca aacctctgtg ggaggctcta 600
ctgcactgag atgcagctct tccgaggggg ctcttaagcc agtgtacaac tgggtgcgtc 660
ttggaacttt tctacacct tctcctggca gcattggttca agatgagggt tctggccagc 720
tcattctcac caacctctcc ctgacctcct cgggcacctt ccgctgtgtg gccaccaacc 780
agatgggcag tgcactcctgt gagctgacct tctctgtgac cgaacctcc caaggccgag 840
tggccggagc tctgattggg gtgctcctgg gcgtgctgtt gctgtcagtt gctgcgttct 900
gcctggtcag gttccagaaa gagaggggga agaagcccaa ggagacatat gggggtagtg 960
accttcggga ggatgccatc gtcctggga tctctgagca cacttgatg agggctgatt 1020
ctagcaaggg gttcctggaa agacctcgt ctgccagcac cgtgacgacc accaagtcca 1080
agctccctat ggtcgtgtga cttctccga tcctgaggg cggtaggggg gaatatcaat 1140
aattaaagtc tgtgggtacc aaaaaaaaa aaaaaaaagt cgacgc 1186

```

1359

<210> 2101

<211> 3109

<212> DNA

<213> Homo sapiens

<400> 2101

```

gtggcgccg ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggtgac 60
ccasgcatt ctgtatctgt ttgaagctac aggaagcga ttttatttca aaaatgttgc 120
cattttgatt cctgaaacat ggaagacaaa ggctgactat gtgagacca aacttgagac 180
ctacaaaaat gctgatgttc tggttgctga gtctactcct ccaggtaatg atgaacccta 240
cactgagcag atgggcaact gtggagagaa gggtgaaagg atccacctca ctctgattt 300
cattgcagga aaaaagttag ctgaatatgg accacaagg agggcatttg tccatgagt 360
ggctcatcta cgatggggag tatttgacga gtacaataat gatgagaaat tctacttata 420
caatggaaga atacaagcag taagatgttc agcaggatatt actggtacaa atgtagtaaa 480
gaagtgtcag ggaggcagct gttacaccaa aagatgcaca ttcaataaag twacaggact 540
ctatgaaaaa ggatgtgagt ttgttctcca atcccgcag acggagaagg cttctataat 600
gtttgcacaa catgttgatt ctatagttga attctgtaca gaacaaaacc acaacaaaga 660
agctccaaac aagcaaaatc aaaaatgcaa tctccgaag acatgggaag tgatccgtga 720
ttctgaggac tttaagaaaa cactcctat gacaacacag ccaccaaata ccaccttctc 780
attgctgcag attggacaaa gaattgtgtg tttagtccct gacaaatctg gaagcatggc 840
gactggtaac cgctcaatc gactgaatca agcaggccag cttttcctgc tgcagacagt 900
tgagctgggg tcctgggttg ggatggtgac atttgacagt gctgcccattg taaaaagtga 960
actcatacag ataaacagtg gcagtgcagc ggacacactc gccaaaagat tacctgcagc 1020
agcttcagga gggacgtcca tctgcagcgg gcttcgatcg gcatttactg tgattaggaa 1080
gaaatatcca actgatggat ctgaaattgt gctgctgacg gatggggaag acaacactat 1140
aagtgggtgc tttaacgagg tcaaacaaag tggtgccatc atccacacag tcgctttggg 1200
gccctctgca gctcaagaac tagaggagct gtccaaaatg acaggagggt tacagacata 1260
tgcttcagat caagttcaga acaatggcct cattgatgct tttggggccc tttcatcagg 1320
aaatggagct gtctctcagc gctccatcca gcttgagagt aagggattaa ccctccagaa 1380
cagccagtgg atgaatggca cagtgatcgt ggacagcacc gtgggaaaagg acactttgtt 1440
tcttatcacc tggacaacgc agcctcccca aatccttctc tgggatccca gtggacagaa 1500
gcaagggtggc tttgtagtgg acaaaaacac caaaatggcc tacctccaaa tcccaggcat 1560
tgctaagggt ggcacttgga aatacagtct gcaagcaagc tcacaaacct tgaccctgac 1620
tgtcacgtcc cgtgcgtcca atgctaccct gcctccaatt acagtgactt ccaaaacgaa 1680
caaggacacc agcaaatcc ccagccctct ggtagtttat gcaaatattc gccaaaggagc 1740
ctccccaatt ctcaaggcca gtgtcacagc cctgattgaa tcagtgaatg gaaaaacagt 1800
taccttgga ctactggata atggagcagg tgctgatgct actaaggatg acggtgtcta 1860
ctcaaggatat ttcacaactt atgacacgaa tggtagatac agtgtaaaag tgcgggctct 1920
gggaggagtt aacgcagcca gacggagagt gatacccccag cagagtggag cactgtacat 1980
acctggctgg attgagaatg atgaaatata atggaatcca ccaagacctg aaattaataa 2040
ggatgatgtt caacacaagc aagtgtgttt cagcagaaca tcctcgggag gctcatttgt 2100
ggcttctgat gtcccaaatg ctcccatacc tgatctcttc ccacctggcc aaatcaccga 2160
cctgaaggcg gaaattcacg ggggcagtct cattaatctg acttggaagc ctctcgggga 2220
tgattatgac catggaacag ctcaacaagta tatcattcga ataagtacaa gtattcttga 2280
tctcagagac aagttcaatg aatctcttca agtgaatact actgctctca tccaaaagga 2340
agccaaactct gaggaagtct ttttgtttaa accagaaaac attacttttg aaaatggcac 2400
agatcttttc attgctattc aggcgtgtga taaggctgat ctgaaatcag aaatatccaa 2460
cattgcacga gtatctttgt ttattcctcc acagactccg ccagagacac ctagtccctga 2520
tgaaacgtct gctcctgtc ctaaatattca tatcaacagc accattcctg gcattcacat 2580
tttaaaaatt atgtggaagt ggataggaga actgcagctg tcaatagcct agggctgaat 2640

```


1360

```

ttttgtcaga taaataaaat aaatcattca tccttttttt tgattataaa attttctaaa 2700
atgtatttta gacttcctgt agggggcgat atactaaatg tatatagtac atttatacta 2760
aatgtattcc tgtagggggc gatatactaa atgtatttta gacttcctgt agggggcgat 2820
aaaataaaat gctaaacaac tgggtataca tgcataaaaa ctatccattc aaacccaaaa 2880
tttaawaatc attgagtctt ttattaatga atttgaatac tagaaagaaa caggggcttgc 2940
atcaataaat ggaagtatgt ttttatttgt ttttaaggagc tttgccagtt aaaaacaaca 3000
tgcaattgca gaaatctaac agagttgcta aaagttgggt gatttctttt ggtgaagaaa 3060
agccaatcta aattatttaa atataaaaaga catgacttgg tttaaaaaa 3109

```

<210> 2102

<211> 1438

<212> DNA

<213> Homo sapiens

<400> 2102

```

acccacgcgt ccgcactcta gcgggtatct gccaccatg gccctggtgc tgatcctcca 60
gctgctgacc ctctggcctc tgtgtcacac agacatcact ccgtctgtcc cccagcttc 120
ataccaccct aagccatggc tgggagctca gccggctaca gttgtgaccc ctgggggtcaa 180
cgtgaccttg agatgccggg caccccaacc cgcttggaga tttggacttt tcaagcctgg 240
agagatcgct ccccttctct tccgggatgt gtccctccgag ctggcagaat tctttctgga 300
ggaggtgact ccagcccaag ggggaagtta ccgctgctgc taccgaaggc cagactgggg 360
gccgggtgtc tgggtcccagc ccagcgatgt cctggagctg ctggtgacag aggagctgcc 420
gcggccgtcg ctgggtggcg tgcgccgggc ggtggtgggt cctggcgcca acgtgagcct 480
gcgctgcgcg ggccgcctgc ggaacatgag ctctgtgctg taccgcgagg gcgtggcggc 540
cccgtgcag taccgccact ccgcgcagcc ctggggccgac ttcacgctgc tgggcgccc 600
cgccccggc acctacagct gctactatca cagccctcc gcgccctacg tgctgtcgca 660
gcgcagcgag gtgctggtca tcagctggga agactctggc tcctccgact acaccgggg 720
gaacctagtc cgcctggggc tggccgggct ggtccctcatc tccctgggcg cgctgggtcac 780
ttttgactgg cgcagtcaga accgcgctcc tgctggtatc cgccctgag cccaggagc 840
actgcagccc gagacttcca acctgagtgg cggagaagct gggaccctgg gctggactgt 900
cctttcctgc agccccacag tcctgtctggc tgagctccgc ggaacggctc ttagaccccc 960
ctgtgccctg tgctgtagct tctttccagg cctttcccaa ggagtagctg aaaggaagac 1020
gcgattagtg gttaagactt ccaagccaga agacagaggg ttcgaatccc agcactgccg 1080
tctactcact gtagtagtag cagctacaga aaggtagtag tgagacgtga agccagctgg 1140
acttctctgg ttgaatgggg acctggagaa cttttctgtc ttacaagagg attgtaaaa 1200
ggaccaatca gcactctgta agatggacca atcagcgctc tgtaaaatgg accaatcagc 1260
aggacatggg cggggacaat aagggaataa aagctggcga gcgcggcacc ccaccagagt 1320
ctgcttccac gctgtgggag ctttgttctc ttgctctaca caataaatct tgctgctgct 1380
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggsggccg ctctagagga tccctcga 1438

```

<210> 2103

<211> 2443

<212> DNA

<213> Homo sapiens

<400> 2103

```

ggagcagctg ctgcagcagg agcagagcag gagacgcgta ccgccgtcgc cgccgccggg 60
ggatgtggcc ggcgcctgcc tctagccgcg ccgcctcttg agtaccagcc gccgtgcag 120
ccgccgccgc cgmctagccg tgcggtgccg ggccgcgcc tccccgggcg ccgcgccggc 180
cgcatgccga ggggtccggg ggcgtactgc gcgcggcgcg ccgcctccgg gctccttcgg 240
ccmcgccatg ggctgctgca gctccgcctc ctccgcgcg cagagctcca aacgagaatg 300

```

1361

```

gaagccgctg gaggaccgta gctgcacaga cataccatgg ctgctgctct tcacctctct 360
ctgcattggg atgggattta tttgtggctt ttcaatagca acaggtgcag cagcaagact 420
agtgtcagga tacgacagct atggaaatat ctgtgggcag aaaaatacaa agttggaagc 480
aataccaaac agtggcatgg accacaccca gcggaagtat gtattctttt tggatccatg 540
caacctggac ttgataaacc ggaagattaa gtctgtagca ctgtgtgtag cagcgtgtcc 600
aaggcaagaa ctgaaaactc tgagtgatgt tcagaagttt gcagagataa atggttcagc 660
cctatgtagc tacaacctaa agccttctga atacactaca tctccaaaat cttctgttct 720
ctgccccaaa ctaccagttc cagcaggtgc acctattcca ttcttccatc gctgtgtctc 780
tgtgaacatt tcctgctatg ccaagtttgc agaggccctg atcacctttg tcagtgaaca 840
tagtgtctta cacaggctga ttagtggagt aatgaccagc aaagaaatta tattgggact 900
ttgcttgtaa tcactagttc tatccatgat tttgatgggtg ataatacagg atatatcaag 960
agtacttgtg tggatcttaa cgattctggt cactctcggg tcaactggag gcacaggtgt 1020
actatggtgg ctgtatgcaa agcaaagaag gtctcccaa gaaactgtta ctcttgagca 1080
gcttcagata gctgaagaca atcttcgggc cctctcatt tatgccattt cagctacagt 1140
gttcacagt atcttattcc tgataatgtt gggtatgccc aaacgtgttg ctcttaccat 1200
cgcttgttc cagtagctg gcaaggtctt cattcacttg ccactgctag tcttccaacc 1260
cttctggact ttctttgtc ttgtcttgtt ttgggtgtac tggatcatga cacttctttt 1320
tcttggcact accggcagtc ctgttcagaa tgagcaaggc tttgtggagt tcaaaatttc 1380
tgggcctctg cagtacatgt ggtggtacca tgtggtgggc ctgatttga tcagtgaatt 1440
tattctagca tgtcagcaga tgacagtggc aggagctgtg gtaacatact attttactag 1500
ggataaaagg aatttgccat ttacacctat tttggcatca gtaaatacgc ttattcgtaa 1560
ccacctaggt acggtggcaa aaggatcttt cattatcaca ttagtcaaaa ttccgcgaat 1620
gatccttatg tatattcaca gtcagctcaa aggaaaggaa aatgcttgtg cacgatgtgt 1680
gctgaaatct tgcatttgtt gcctttggtg tcttgaaaag tgcctaaatt atttaaata 1740
gaatgcatac acagccacag ctatcaacag caccaacttc tgcacctcag caaaggatgc 1800
ctttgtcatt ctggtggaga atgctttgcg agtggctacc atcaacacag taggagattt 1860
tatgttattc cttggcaagg tgctgatagt ctgcagcaca ggttttagct ggattatgct 1920
gctcaactac cagcaggact acacagtatg ggtgctgcct ctgatcatcg tctgcctctt 1980
tgctttccta gtcgctcatt gcttcctgtc tatttatgaa atggtagtgg atgtattatt 2040
cttgtgtttt gccattgata caaaatacaa tgatgggagc cctggcagag aattctatat 2100
ggataaagtg ctgatggagt ttgtggaaaa cagtaggaaa gcaatgaaag aagctggtaa 2160
gggaggcgtc gctgattcca gagagctaaa gccgatgctg aagaaaagg gactgggtct 2220
atgagccctg aagaatgaac tcagaggagg ttgtttacat gaggttctcc cactcaccag 2280
ctgttgagag tctgcgatta tgaagagcag gatcttatta cttcaatgaa agcatgtaac 2340
aagtttctca aaccaccaac agccaagtgg atttggtaca gtgcggctgt ctaataaata 2400
atcaaaagca tttgatagaa aaaaaaaaaa aaaggcgggc cgc 2443

```

<210> 2104

<211> 2519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2519)

<223> n equals a,t,g, or c

1362

<400> 2104

```

ggcagagcac  ttcttgcca  ggaaacctga  gcggtgagac  tcccagctgc  ctacatcaag  60
gccccaggac  atgcagaacc  ttctctaga  acccgaccca  ccaccatgag  gtcctgcctg  120
tggagatgca  ggcacctgag  ccaaggcgtc  cagtggctct  tgcttctggc  tgtcctggtc  180
ttctttctct  tcgccttgcc  ctcttttatt  aaggagcctc  aaacaaagcc  ttccaggcat  240
caacgcacag  agaacattaa  agaaaggctc  ctacagtccc  tggcaaagcc  taagtcccag  300
gcaccacaaa  gggcaaggag  gacaaccatc  tatgcagagc  cagygccaga  gaacaatgcc  360
ctcaacacac  aaacccagcc  caaggcccac  accaccggag  acagaggaaa  ggaggccaac  420
caggcaccgc  cggaggagca  ggacaagggt  cccacacacag  cacagagggc  agcatggaag  480
agcccgaaaa  aagagaaaac  catggtgaac  acactgtcac  ccagagggca  agatgcaggg  540
atggcctctg  gcaggacaga  ggcacaatca  tggaagagcc  aggacacaaa  gacgacccaa  600
ggaaatgggg  gccagaccag  gaagctgacg  gcctccagga  cgggtgtcaga  gaagcaccag  660
ggcaaagcgg  caaccacagc  caagacgtc  attyccaaaa  gtcagcacag  aatgctggct  720
yccacaggag  cagtgtcaac  aaggacgaga  cagaaaaggag  tgaccacagc  agtcatccca  780
cctaaggaga  agaaacctca  ggccacccca  cccctgccc  ctttccagag  cccacgacg  840
cagagaaaac  aaagactgaa  ggscgscaac  ttcaaactct  agcctcgggt  ggattttgag  900
gaaaaataca  gcttcgaaat  aggaggcctt  cagacgactt  gccctgactc  tgtgaagatc  960
aaagcctcca  agtcgctgtg  gctccagaaa  ctctttctgc  ccaacctcac  tctcttcctg  1020
gactccagac  acttcaacca  gagtgaagg  gaccgcctgg  aacactttgc  accacccttt  1080
ggcttcatgg  agctcaacta  ctcttggtg  cagaaggctc  tgacacgctt  ccctccagtg  1140
ccccagcagc  agctgtctct  ggccagcctc  cccgctggga  gcctccgggt  catcacctgt  1200
gccgtggtgg  gcaacggggg  catcctgaac  aactcccaca  tgggccagga  gatagacagt  1260
cacgactacg  tggtccgatt  gagcggagct  ctcatataag  gctacgaaca  ggatgtgggg  1320
actcggacat  ccttctacgg  ctttaccgnc  ttctccctga  cccagtcact  ctttatattg  1380
ggcaatcggg  gtttcaagaa  cgtgcctctt  gggaaggacg  tccgctactt  gcacttcctg  1440
gaaggcacc  gggactatga  gtggctggaa  gcaactgctt  tgaatcagac  ggtgatgtca  1500
aaaaaccttt  tctggttcag  gcacagacc  caggaagctt  ttcgggaagc  cctgcacatg  1560
gacaggtacc  tggtgctgca  cccagacttt  ctccgataca  tgaagaacag  gtttctgagg  1620
tctaagacc  tggatgggtc  ccaactggag  atataccgcc  ccaccactgg  ggccctcctg  1680
ctgtcactg  cccttcagct  ctgtgaccag  gtgagtgctt  atggcttcat  cactgagggc  1740
catgagcgct  tttctgatca  ctactatgat  acatcatgga  agcggctgat  cttttacata  1800
aaccatgact  tcaagctgga  gagagaagtc  tggaagcggc  tacacgatga  agggataatc  1860
cggctgtacc  agcgtcctgg  tcccggaaact  gccaaagcca  agaactgacc  ggggccaggg  1920
ctgccatggt  ctcttgctc  gctccaaggc  acaggataca  gtgggaatct  tgagactctt  1980
tggccatttc  ccattggtca  gactaagctc  caagcccttc  argagttcca  agggaacact  2040
tgaaccatgg  acaagactct  ctcaagatgg  caaatggcta  attgaggttc  tgaagttctt  2100
cagtacattg  ctgtaggctc  tgaggccagg  gatttttaat  taaatgggg  gatgggtggc  2160
caataccaca  attcctgctg  aaaaacactc  ttccagtcca  aaagcttctt  gatacagaaa  2220
aaagagcctg  gatttacaga  aacatataga  tctggtttga  attccagatc  gagtttacag  2280
ttgtgaaatc  ttgaaggat  tacttaactt  cactacagat  tgtctagaag  acctttctag  2340
gagttatctg  attctagaag  ggtctatact  tgtccttgct  ttttaagctat  ttgacaactc  2400
tacgtgttgt  agaaaactga  taataatata  aatgattgtt  gtccatggaa  aggcaaataa  2460
attttctaca  gtgaagcaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  2519

```

<210> 2105

<211> 1312

<212> DNA

<213> Homo sapiens

<400> 2105

1363

```

gctctgagag cgttatttca aaagaagttg agaaccarag aaaccracct aaggggatty 60
tcccatttgg cccgtcctac cctaaagtma ccacctgctg ctttitytga gcgcttacca 120
gtgaccaaga ggaacagAAC acagagcagc ctggcagtgt ccaagcaaca agcctccgct 180
cctccttcct gcaccctggg gctcctgaaa ctcacatggg taaaaaagat acagtaaaga 240
cataaatacc acatttgaca aatggaaaaa aaggagtgtc cagaaaagag tagcagcagt 300
gaggaagagc tgccgagacg ggtatacagg gagctaccct gtgtttctga gaccctctgt 360
gacatctcac attttttcca agaagatgat gagacagagg cagagccatt attgttccgt 420
gctgttcctg agtgtcaact atctgggggg gacattccca gtgtatcaga agagcaggaa 480
tcttcagagg gacaagattc aggagacatt tgctcagaag agaatacaat agtttcctct 540
tatgcttcta aagtctgttt tgagatcgaa gaagattata aaaatcgtca gtttctgggg 600
cctgaaggaa atgtggatgt tgagttgatt gataagagca caaacagata cagcgtttgg 660
ttccccactg ctggctggta tctgtggta gccacaggcc tcggcttcct ggtaagggat 720
gaggtcacag tgacgattgc gtttggttcc tggagtcagc acctggccct ggacctgcag 780
caccatgaac agtggctggt gggcggcccc ttgtttgatg tctctgcaga gccagaggag 840
gctgtcgccg aaatccacct cccccaactt atctccctcc aagcagggtga ggtggacgtc 900
tcctggtttc tcgttgccca ttttaagaat gaagggtagg tcctggagca tccagcccg 960
gtggagcctt tctatgctgt cctggaaaagc cccagcttct ctctgatggg catcctgctg 1020
cggatcgcca gtgggactcg cctctccatc cccatcactt ccaacacatt gatctattat 1080
cacccccacc ccgaagatat taagttccac ttgtaccttg tccccagcga cgccttgcta 1140
acaaagacac tatttttagag gctgaggata catcagtga caaaagaggc aaaaacatga 1200
caaccaaaga tattacatgg aatgctatag gaaaaatata tgtgcatatg ataagaacta 1260
taacaaataa agaaggttaa gaaaattaaa aaaaaaaaaa aagggcggcc gc 1312

```

<210> 2106

<211> 1871

<212> DNA

<213> Homo sapiens

<400> 2106

```

taatcaaacg tcaggaggag agctgcattc cactgtttca cagatgctgt gagggtgaca 60
aagatgcagg gcaccactg gaaacacaga cggcactctg cgaaagagga aggggcgcca 120
ggagcttggg tgagcaagggt tggaggatgat tctgccccctc tccccaggct ttctgtatta 180
gaaaactgaa gcttcaagaa cagacttgcc taacaacagg aaacttgtat gtctcgaagt 240
ggcaattcac acataaggct ccatgactcc tgaactctca caaatattag ttggctcttt 300
tcatggtttt actgaagttg ctagaagttt acagaaaagg aagtgcagga acatttcaca 360
aatctacaat ctgtgagtat cacatcctgt atagctgtaa aacttggaat aagggaagggc 420
tgatgacttt cagaagatga aggtaaagtag aaaccgttga tgggactgag aaaccagagt 480
taaaacctct ttggagcttc tgaggactca gctggaacca acgggcacag ttggcaaacac 540
catcatgaca tcacaacctg ttccaatga gaccatcata gtgctcccat caaatgtcat 600
caacttctcc caagcagaga aaccggaacc caccaaccag ggcaggata gcctgaagaa 660
acatctacac gcagaaatca aagttattgg gactatccag atcttgtgtg gcatgatggt 720
attgagcttg gggatcattt tggcatctgc ttccctctct ccaaatttta ccaagtgc 780
ttctacactg ttgaactctg cttaccatt cataggaccc ttttttttta tcctctctg 840
ctctctatca atcgccacag agaaaagggt raccaagctt ttggtgcata gcagcctggt 900
tggaagcatt ctgagtgtc tgctctgccc ggtgggtttc attatcctgt ctgtcaaac 960
ggccacctta aatcctgcct cactgcagtg tgagttggac aaaaataata taccaacaag 1020
aagttatggt tcttactttt atcatgattc actttatacc acggactgct atacagccaa 1080
agccagtctg gctggawctc tctctctgat gctgatttgc actctgctgg aattctgcct 1140
agctgtgtc actgctgtgc tgcggtggaa acaggcttac tctgacttcc ctgggagtgt 1200
acttttctg cctcacagtt acattggtta ttctggcatg tcctcaaaaa tgactcatga 1260
ctgtggatat gaagaactat tgacttctta agaaaaaagg gagaaatatt aatcagaaag 1320

```

1364

```

ttgattctta tgataatatg gaaaagttaa ccattataga aaagcaaagc ttgagtttcc 1380
taaagtgaag cttttaaaagt aatgaacatt aaaaaaaacc attatttcac tgtcatttaa 1440
gatatgtggt cattggggat ctcttgattt gcctgacatt gacttcagca aaagcacggg 1500
gctgtaaatt accattttact agattagcca aatagtctga atttccagaa aacaaggcag 1560
aatgatcatt cccagaaaca tttcccagaa aatgtttccc agaaaactag acagmatgat 1620
cattcaatgg atcacagtga agcaaaggac acaacttttt attgtacccc ttaattgtca 1680
acaggagtta actgatttgt tgtggtgctc agactttttt atacagggtgc tagtgtttta 1740
tcctatgtat ttttaactcat tagtgcataa aggcaagccc catataatga agtctcaggg 1800
tatatgaaag tagctggcct caaaataaaa tttttgagtg caaaaaaaaa aaaaaataaa 1860
aaaaaaaaaa a 1871

```

<210> 2107

<211> 1309

<212> DNA

<213> Homo sapiens

<400> 2107

```

gaattcggca cgagaagata taaaagctcc agaaacgttg actgggacca ctggagacac 60
tgaagaaggc agggggccctt agagtcttgg ttgccaaaca gatttgcaga tcaaggagaa 120
cccaggagtt tcaaaagaagc gctagtaagg tctctgagat ccttgcacta gctacatcct 180
cagggttagga ggaagatggc ttccagaagc atgcggctgc tcctattgct gagctgcctg 240
gccaaaacag gagtccctggg tgatatcatc atgagaccca gctgtgctcc tggatggttt 300
taccacaagt ccaattgcta tggttacttc aggaagctga ggaactggtc tgatgccgag 360
ctcgagtgtc agtcttacgg aaacggagcc cacctggcat ctatcctgag tttaaaggaa 420
gccagcacca tagcagagta cataagtggc tatcagagaa gccagccgat atggattggc 480
ctgcacgacc cacagaagag gcagcagtgg cagtggattg atggggccat gtatctgtac 540
agatcctggg ctggcaagtc catgggtggg aacaagcact gtgctgagat gagctccaat 600
aacaactttt taacttggag cagcaacgaa tgcaacaagc gccaacactt cctgtgcaag 660
taccgaccat agagcaagaa tcaagattct gctaaactcct gcacagcccc gtccctcttcc 720
tttctgctag cctggctaaa tctgctcatt atttcagagg ggaaacctag caaactaaga 780
gtgataaggg ccctactaca ctggcttttt taggctttaga gacagaaact ttagcattgg 840
cccagtagtg gcttctagct ctaaatgttt gccccgccat ccctttccac agtatccttc 900
ttccctcctc ccctgtctct ggctgtctcg agcagctctag aagagtgcac ctccagccta 960
tgaaacagct gggctcttgg ccataagaag taaagatttg aagacagaag gaagaaactc 1020
aggagtaagc ttctagacct cttcagcttc tacacccttc tgccctctct ccattgcctg 1080
cacccacccc cagccactca actcctgctt gtttttccct tggccatagg aagggtttacc 1140
agtagaatcc ttgctagggt gatgtggggc atacattcct ttaataaaacc attgtgtaca 1200
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaactcgagg gggggcccggt acccaatcgc ctgatcatga tcgtatata 1309

```

<210> 2108

<211> 943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

1365

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 2108

```

antccccgggt cgcacsagcg kcacgccgca tccatagccgc cgactcacac aaggcaggtg 60
ggtgaggaaa tccagagttg ccatggagaa aattccagtg tcagcattct tgctccttgt 120
ggccctctcc tacactctgg ccagagatac cacagtcaaa cctggagcca aaaaggacac 180
aaaggactct cgacccaaac tgccccagac cctctccaga ggttgggggtg accaactcat 240
ctggactcag acatatgaag aagctctata taaatccaag acaagcaaca aacccttgat 300
gattattcat cacttggatg agtgcccaca cagtcaagct tttaaagaaag tgtttgctga 360
aaataaagaa atccagaaat tggcagagca gtttgtcctc ctcaatctgg tttatgaaac 420
aactgacaaa cacctttctc ctgatggcca gtatgtcccc aggattatgt ttgttgaccc 480
atctctgaca gttagagccg atatcactgg aagatattca aaycgtctct atgcttacga 540
acctgcagat acagctctgt tgcttgacaa catgaagaaa gctctcaagt tgctgaagac 600
tgaattgtaa agaaaaaaaaa tctccaagcc cttctgtctg tcaggccttg agacttgaaa 660
ccagaagaag tgtgagaaga ctggctagtg tggaagcata gtgaacacac tgattaggtt 720
atggtttaat gttacaacaa ctatttttta agaaaaacaa gtttttagaaa tttggtttca 780
agtgtacatg tgtgaaaaaca atattgtata ctaccatagt gagccatgat tttctaaaaa 840
aaaaaaaaataa tgttttgggg gtgttntaaa aaaaaaaaaa aaaagtgagt gaactaacaa 900
aaaaaaaaagtt ttgcccccaa gggggacgggt tacaattggg ggg 943

```

<210> 2109

<211> 1377

<212> DNA

<213> Homo sapiens

<400> 2109

```

ggcacgagaa aaccttgagg tgattcatct tccaggctct ccttccatca agtctctcct 60
ccctagcgct ctgggtcctt aatggcagca gccgccgcta ccaagatcct tctgtgcctc 120
ccgcttctgc tctgtctgtc cggctgggtcc cgggctgggc gagccgaccc tcaactctct 180
tgctatgaca tcaccgtcat ccctaagttc agacctggac cacgggtggtg tgcggttcaa 240
ggccagggtg atgaaaagac ttttcttcac tatgactgtg gcaacaagac agtcacacct 300
gtcagtcctc tggggaagaa actaaatgtc acaacggcct ggaaagcaca gaacccagta 360
ctgagagagg tgggtggacat acttacagag caactgcgtg acattcagct ggagaattac 420
acacccaagg aacccctcac cctgcaggcc aggatgtctt gtgagcagaa agctgaagga 480
cacagcagtg gatcttggca gttcagtttc gatgggcaga tcttctcct ctttgactca 540
gagaagagaa tgtggacaac ggttcacctt ggagccagaa agatgaaaga aaagtgggag 600
aatgacaagg ttgtggccat gtccttccat tacttctcaa tgggagactg tataggatgg 660
cttgaggact tcttgatggg catggacagc accctggagc caagtgcagg agcaccactc 720
gccatgtcct caggcacaac ccaactcagg gccacagcca ccacctcat cctttgctgc 780
ctctcatca tctccccctg ctteatcctc cctggcatct gaggagagtc ctttagagtg 840
acaggttaaa gctgatacca aaaggctcct gtgagcacgg tcttgatcaa actcgccctt 900
ctgtctggcc agctgcccac gacctacggt gtatgtccag tggcctccag cagatcatga 960
tgacatcatg gacccaatag ctcatcact gccttgattc cttttgccaa caattttacc 1020
agcagttata cctaacatat tatgcaatct tctcttgggt ctacctgatg gaattcctgc 1080
acttaaagtt ctggctgact aaacaagata tatcattttc tttcttctct ttttgtttgg 1140
aaaatcaagt acttctttga atgatgatct ctttcttgca aatgatattg tcagtaaaat 1200
aatcacgtta gacttcagac ctctggggat tctttccgtg tcctgaaaga gaatttttaa 1260
attatttaat aagaaaaaat ttatattaat gattgtttcc tttagtaatt tattgttctg 1320
tactgatatt taaataaaga gttctatttc ccaaaaaaaaaa aaaaaaaaaa aaaaaaa 1377

```

1366

<210> 2110
 <211> 788
 <212> DNA
 <213> Homo sapiens

<400> 2110
 gcgcgacccg ccccgctccc tccagtctgg cctggggcgcc gcgggaacgc tgtcctggct 60
 gccgccaccc gaacagcctg tcctgggtgcc ccggctccct gccccgcgcc cagtcatgac 120
 cctgcgcccc tcactcctcc cgctccatct gctgctgctg ctgctgctca gtgcggcggt 180
 gtgccggggt gaggtctggc tcgaaaccga aagtcctgct cggaccctcc aagtggagac 240
 cctgggtggag cccccagaac catgtgccga gcccgctgct tttggagaca cgcttcacat 300
 aactacacg ggaagcttgg tagatggacg tattattgac acctccctga ccagagaccc 360
 tctggttata gaacttggcc aaaagcaggt gattccaggt ctggagcaga gtcttctcga 420
 catgtgtgtg ggagagaagc gaagggcaat cattccttct cacttggcct atggaaaacg 480
 gggatttcca ccactctgtc cagcggatgc agtgggtgag tatgacgtgg agctgattgc 540
 actaatccga gccaaactact ggctaaagct ggtgaagggc attttgctc tggtagggat 600
 ggccatggtg ccascctcct gggcctcatt gggatatcacc tatacagaaa ggccaataga 660
 cccaaagtct ccaaaaagaa gctcaaggaa gagaaacgaa acaagagcaa aaagaaataa 720
 taaataataa atttttaaaa acttaaaaaa aaaaaaaraa aaaaaaaaaa aaaaaaaaaa 780
 aaaaaaaaaa 788

<210> 2111
 <211> 1019
 <212> DNA
 <213> Homo sapiens

<400> 2111
 agggattctt gctccaccct gtgtacctgc tccgagtgtc tttccccctc cccaccccag 60
 caggccagtc ctgggccccca gctccagagc actcacgggc tgccaggggtg agcaggctag 120
 aaactcacga caccaaggag atccagggtta aaaagtacaa gtgtggcctc atcaagccct 180
 gccagccaa ctacttttgcg tttaaaatct gcagtggggc cgccaacgct gtgggccccta 240
 ctatgtgctt tgaagaccgc atgatcatga gtcctgtgaa aaacaatgtg ggcagaggcc 300
 taaacatcgc cctggtgaat ggaaccacgg gagctgtgct gggacagaag gcatttgaca 360
 tgtactctgg agatgttatg cacctagtga aattccttaa agaaattccg ggggggtgcac 420
 tgggtgctgt ggctcctac gacgatccag ggaccaaact gaacgatgaa agcaggaaac 480
 tcttctctga cttggggagt tctacgcaa aacaactggg ctcccgggac agctgggtct 540
 tcataggagc caaagacctc aggggtaaaa gcccttttga gcagttctta aagaacagcc 600
 cagacacaaa caaatcacgag ggatggccag agctgctgga gatggagggc tgcattgcccc 660
 cgaagccatt ttaggggtggc tgtggctctt cctcagccag gggcctgaag aagctcctgc 720
 ctgacttagg agtcagagcc cggcaggggc tgaggaggag gagcaggggg tgctgcgtgg 780
 aaggtgctgc aggtccttgc acgctgtgtc gcgctctctc tcctcggaag cagaaccctc 840
 ccacagcaca tcctaccggg aagaccagcc tcagagggtc cttctggaac cagctgtctg 900
 tggagagaat ggggtgcttt cgtcagggac tgctgacggc tggctcctgag gaaggacaaa 960
 ctgccagac ttgagcccaa ttaaatctta tttttgctgg ttttgaaaaa aaaaaaaaaa 1019

<210> 2112
 <211> 975
 <212> DNA
 <213> Homo sapiens

1367

<400> 2112

```

tccgggytca gacgtcgcct tccaattcaa tccgcggttt gacggctggg acaagggtgt 60
cttcaacacg ttgcagggcg ggaagtgggg cagcgaggag aggaagagga gcatgccctt 120
caaaaagggt gccgcctttg agctggtctt catagtccctg gctgagcact acaagggtgt 180
ggtaaatgga aatcccttct atgagtacgg gcaccggctt cccctacaga tggtcaccca 240
cctgcaagtg gatggggatc tgcaacttca atcaatcaac ttcacgcggag gccagcccct 300
ccggccccag ggacccccga tgatgccacc ttaccctggt cccggacatt gccatcaaca 360
gctgaacagc ctgcccacca tggaaaggacc cccaaccttc aaccgcctg tgccatattt 420
cgggaggctg caaggagggc tcacagctcg aagaaccatc atcatcaagg gctatgtgcc 480
tcccacaggc aagagctttg ctatcaactt caagggtggg tcctcagggg acatagctct 540
gcacattaat ccccgcatgg gcaacggtac cgtggtccgg aacagccttc tgaatggctc 600
gtggggatcc gaggagaaga agatcaccca caaccattt ggtcccgac agttctttga 660
tctgtccatt cgctgtggct tggatcgctt caaggtttac gccaatggcc agcacctctt 720
tgactttgcc catcgctctt cggccttcca gaggggtggac acattggaaa tccagggtga 780
tgtcaccttg tcctatgtcc agatctaatac tattcctggg gccataactc atgggaaaac 840
agaattatcc cctaggactc ctttctaagc ccctaataaa atgtctgagg gtgtctcaaa 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaa

```

<210> 2113

<211> 1173

<212> DNA

<213> Homo sapiens

<400> 2113

```

gcccacgcgt ccgcccacgc gtccgctgga cggcagctat gcgactcacc gtgctgtgtg 60
ctgtgtgcct gctgcctggc agcctggccc tgccgctgcc tcaggaggcg ggaggcatga 120
gtgagctaca gtgggaacag gctcaggact atctcaagag attttatctc tatgactcag 180
aaacaaaaaa tgccaacagt ttagaagcca aactcaagga gatgcaaaaa ttctttggcc 240
tacctataac tggaatgtta aactccgcg tcatagaat aatgcagaag cccagatgtg 300
gagtgccaga tgttgacaga tactcactat ttccaaatag cccaaaatgg acttccaaag 360
tggtcaccta caggatcgta tcataactc gagacttacc gcatattaca gtggatcgat 420
tagtgtcaaa ggcttttaaac atgtggggca aagagatccc cctgcatttc aggaaagttg 480
tatggggaac tgctgacatc atgattggct ttgcgcgagg agctcatggg gactcctacc 540
catttgatgg gccaggaaac acgctggctc atgcctttgc gcctgggaca ggtctcggag 600
gagatgctca cttcgatgag gatgaacgct ggacggatgg tagcagtcta gggattaact 660
tcctgtatgc tgcaactcat gaacttggcc attctttggg tatgggacat tcctctgatc 720
ctaattgcagt gatgtatcca acctatggaa atggagatcc ccaaaatttt aaactttccc 780
aggatgatat taaaggcatt cagaaactat atggaaagag aagtaattca agaaagaaat 840
agaaacttca ggcagaacat ccattcattc attcattgga ttgtatatca ttgttgaca 900
atcagaattg ataagcactg ttctccact ccatttagca attatgtcac ctttttttat 960
tgcatgttgt ttttgaatgt ctttactcc ttttaaggat aaactccttt atgggtgtgac 1020
tgtgtcttat tcactctatac ttgcagtggg tagatgtcaa taaatgttac atacacaaat 1080
aaataaaatg tttattccat ggtaaattta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ata

```

<210> 2114

<211> 1708

<212> DNA

<213> Homo sapiens

1368

<220>

<221> misc feature

<222> (1109)

<223> n equals a,t,g, or c

<400> 2114

```

acttcagttc tcgagagaag aggcggggagt ggacctgggtc agccctaccc cactgacccc 60
accggaccca ggcgcggcct ccgccacagc cacagccctt gcccctgctg cggcgcggcg 120
aggcgaggcg atggccaagg tgtcgggtgt gaacgtggcg gtcctggaga acccgagccc 180
tttccacagc cccttccggt tcgagatcag cttcgagtgc agtgaagccc tggcggacga 240
cctggagtgg aagatcattt atgttggtc ggctgagagt gaggaatttg atcagatcct 300
agactcgtgt ctggtgggccc ctgtgccagc agggagacac atgtttgtct ttcaggccga 360
cgcccccaac ccatccctca tcccagagac tgatgccgtg ggtgtgactg tggtcctcat 420
cacctgcacc taccatggac aggagtccat ccgagtgggc tactacgtca acaacgagta 480
cctcaaccct gagctgcgtg agaaccgcc catgaagcca gatttctccc agctccagcg 540
gaacatcttg gctcgaacc cccgggtgac ccgcttccat atcaactggg acaacaacat 600
ggacaggctg gaggccatag agaccagga cccctccctg ggtgcggccc tcccactcaa 660
ctgcactcct atcaagggtt tggggctccc tggtgcac cctggcctcc tccctgagaa 720
ctccatggac tgcactaac tgcaggaacc cagagtgtcc cagcacgccg ggaggggcaa 780
ccaggcctcc cagcgagtcc tgcaggcccc atctagagga ctttgggggc catcagctgc 840
aatccaggtc tgtcaaaact agcccttagg aaagaacagg ccttgggtct cccctagtcc 900
tggccagaag gatgatctcg cttttcctct acaggcctat aagaagcagg tacttcagtt 960
ctaaattctg acttgtgttc ttttcgtctt cataaattct aactaaggcc actgtgccac 1020
tgtgcacct tgagtaccat tgatccaaag ctttcccaca gacctccctg gcccacctag 1080
aggctttctt ggtcagtgcc tgtcaaggnt ccagtccctg tgagccaaag gctttgtcat 1140
tcctttctct tcctgtacat ctgagcagac ccactccagc tttctggtgt cacaggcggg 1200
aatgttagtt agtaggtaga cttagatccc atttctgtcc tgctcccagg aagattctta 1260
ggtcctcttc aatccagcag cccctcccag aggtgtgatc agcaggatgc tgaggaacca 1320
tgttgccctt cctgtcaatc acagccacct tcctgttatc tcctaaatgg atctggcttt 1380
tcctggaggc tgccatggtt ggaagatggt atcagagggc ctgcctgggc agtctgtctc 1440
cggggcaggg tcagggaccc tctgcctctg gcagccttaa cctgtcctct gctaggacca 1500
gggtgatttc aagccaggga agcaactggg accctgaaaa ctgtccctcc ccagcccgtc 1560
ccccctctct gtgccctggt ccccttgctg ccattgtggat gctgttgtga ttgctgtttg 1620
tatattatca aaatgttttt atattaaaaa tgtttggtct gaaaattaaa agcacttcat 1680
ttagaaaaaa aaaaaaaaaa aaaaaaaaaa 1708

```

<210> 2115

<211> 1877

<212> DNA

<213> Homo sapiens

<400> 2115

```

cctgaaggga gagcaggga agagaggaca gtggccagag agggctctgg gcactggagg 60
gacgtctctt ttcctgcca ggggtccctg ggccgatggg atcacgcaga agaatgcgag 120
agaagcagcc tttgagaagg gaagtcacta tcccagagcc cagactgagc ggatggagtt 180
gaggaagtac ggccctggaa gactggcggg gacagttata ggaggagctg ctgagagtaa 240
atcacagact aatcagact caatcacaaa agagtccctg ccaggccttt acacagcccc 300
ttcctccccg tccccgccct cacagggtgag tgaccaccaa gtgctaaatg acgccgaggt 360
tgccgccctc ctggagaact tcagctcttc ctatgactat ggagaaaacg agagtgamtc 420
gtgctgtacc tccccgccct gccacagga cttcagcctg aacttcgacc gggccttcc 480
gccagccctc wacagcctcc tctttctgct ggggctgctg ggcaacggcg cgggtggcagc 540

```

1369

```

cgtgctgctg agccggcgga cagccctgag cagcaccgac accttcctgc tccacctage 600
tgtagcagac acrcctgctgg tgctgacact gccgctctgg gcagtggacg ctgccgtcca 660
gtgggtcttt ggctctggcc tctgcaaagt ggcaggtgcc ctcttcaaca tcaactteta 720
cgcaggagcc ctctgctggg cctgcatcag ctttgaccgc tacctgaaca tagttcatgc 780
caccagctc taccgcccgg ggcccccgcc ccgctgaacc ctcacctgcc tggctgtctg 840
ggggctctgc ctgcttttctg ccctcccaga cttcatcttc ctgtcggccc accacgacga 900
gcgctcaac gccacccact gccaatataa cttcccacag gtgggcccga cggctctgcg 960
ggtgctgcag ctggtggtg gctttctgct gccctgctg gtcattggcct actgctatgc 1020
ccacatcctg gccgtgctgc tggtttccag gggccagcgg cgctgcggg ccatgcgggt 1080
ggtggtggtg gtcgtggtgg cctttgccct ctgctggacc cctatcacc tgggtggtgct 1140
ggtggacatc ctcatggacc tgggcgcttt ggcccgaac tgtggccgag aaagcagggg 1200
agacgtggcc aagtcggtca cctcaggcct gggctacatg cactgctgcc tcaacccgct 1260
gctctatgcc tttgtagggg tcaagttccg ggagcggatg tggatgctgc tcttgccct 1320
gggctgcccc aaccagagag ggctccagag gcagccatcg tcttcccgcc gggattcatc 1380
ctggtctgag acctcagagg cctcctactc gggcttctga ggccggaatc cgggctcccc 1440
tttcgcccac agtctgactt ccccgcatc caggtcctc cctccctctg ccggctctgg 1500
ctctcccaa tatcctcgt cccgggactc actggcagcc ccagcaccac caggtctccc 1560
gggaagccac cctcccagct ctgaggactg caccattgct gctccttagc tgccaagccc 1620
catcctgccg ccgaggtgg ctgcctggag ccccatgcc cttctcattt ggaaactaaa 1680
acttcatctt ccccaagtgc ggggagtaca aggcattggc tagagggtgc tgccccatga 1740
agccacagcc caggcctcca gctcagcagt gactgtggcc atggtcccca agacctctat 1800
atttgcctt ttatttttat gtctaaaatc ctgcttaaaa cttttcaata aacaagatcg 1860
tcaggaaaaa aaaaaaa 1877

```

<210> 2116

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<400> 2116

```

ggcacgagag atggcgggcg aacagcggga ctgcgggggt gctgcgcagc tggcggggcc 60
ggcgggcgag gctgaccccc taggacgctt cacgtgtccc gtgtgcttag aggtgtacga 120
gaagccggta cagggtgccct gcggacacgt cttttgctct gcatgcctgc aggaatgtct 180
gaagccgaag aagcctgtct gtggggtgtg tcgcagcgt ctggcacctg gcgtccgagc 240
cgtggagctc gagcggcaga tcgagagcac agagacttct tgccatggct gccgtaagaa 300
tttcttcctg tccaagatcc ggtccacgt ggctacttgt tccaaatacc agaattacat 360

```

1370

```

catggaaggt gtgaaggcca ccattaagga tgcattctctt cagccaagga atgttcctaaa 420
ccgttacacc ttctcttggt cttactgtcc tgagaagaac ttgatcagg aaggacttgt 480
ggaacactgc aaattattcc atagcacgga taccaaatct gtggtttgtc cgatatgtgc 540
ctcgatgccc tggggagacc ccaactaccg cagcgccaac ttcagagagc acatccagcg 600
ccggcaccgg ttttcttatg acaacttttgt ggattatgat gttgatgaag aggacatgat 660
gaatcagggt ttgcagcgct ccattcatga ccagtgcgca ggtccgtgc ttgctatctg 720
tctcatgtta cagagcttcc attacatatt aaacgtgaaa tctatgaaaa aaaaaaagg 780
ggggggnccc gggtacccca atttcggccc tattaggtna agtcgtna 828

```

<210> 2117

<211> 2520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2520)

<223> n equals a,t,g, or c

<400> 2117

```

ggcacgagca cttcctggcc aggaaacctg agcggtgaga ctcccagctg cctacatcaa 60
ggccccagga catgcagaac cttcctctag aacccgaccc accaccatga ggtcctgcct 120
gtggagatgc aggcaacctg gccaaaggcg ccagtggctc ttgcttctgg ctgtcctggg 180
cttcttttctc ttgcgccttg cctctttttat taaggagcct caaacaagc cttccaggca 240
tcaacgcaca gagaacatta aagaaaggct tctacagtc ctggcaagc ctaagtccca 300
ggcacccaca agggcaagga ggacaaccat ctatgcagag ccagtgccag agaacaatgc 360
cctcaacaca caaacccagc ccaaggccca caccaccgga gacagaggaa aggaggccaa 420
ccaggcaccg ccggaggagc aggacaagggt gcccacaca gcacagaggg cagcatggaa 480
gagcccagaa aaagagaaaa ccatggtgaa cacactgtca cccagagggc aagatgcagg 540
gatggcctct ggcaggacag aggcacaatc atggaagagc caggacacaa agacgaccca 600
aggaaatggg ggccagacca ggaagctgac ggccctccagg acggtgtcag agaagcacca 660
gggcaaagcg gcaaccacag ccaagacgct cattcccaaa agtcagcaca gaatgctggc 720
tcccacagga gcagtgtcaa caaggacgag acagaaagga gtgaccacag cagtcatccc 780
acctaaggag aagaaacctc aggccacccc accccctgcc cctttccaga gcccacgac 840
gcagagaaac caaagactga aggccgcaa cttcaaatct gagcctcggg gggattttga 900
ggaaaaatac agcttcgaaa taggaggcct tcagacgact tgccctgact ctgtgaagat 960
caaagcctcc aagtcgctgt ggctccagaa actctttctg cccaacctca ctctcttct 1020
ggactccaga cacttcaacc agagtgagtg ggaccgctg gaacactttg caccaccctt 1080
tggtctcatg gagctcaact actccttggg gcagaaggct gtgacacgct tccctccagt 1140
gcccagcag cagctgtctc tggccagcct ccccgctggg agcctccggg gcatcacctg 1200
tgccgtggtg ggcaacgggg gcattcctgaa caactccac atggggcagg agatagacag 1260
tcacgactac gtgttccgat tgagcggagc tctcattaaa ggctacgaac aggatgtggg 1320
gactcggaca tcttcttacg gctttaccgc cttctccctg acccagtcac tcttatatt 1380
gggcaatcgg ggtttcaaga acgtgcctct tgggaaggac gtccgctact tgcacttct 1440
ggaaggcacc cgggactatg agtggtgga agcactgctt atgaatcaga cggatgatgc 1500
aaaaaacctt ttctggttca ggcacagacc ccaggaaagt ttcgggaag cctgcacat 1560
ggacaggtag ctgttgctgc acccagactt tctccgatac atgaagaaca ggtttctgag 1620
gtctaagacc ctggatggtg cccactggag gatataccgc cccaccactg gggccctcct 1680
gctgctcact gcccttcagc tctgtgacca ggtgagtgct tatggcttca tctactgagg 1740
ccatgagcgc ttttctgatc actactatga tacatcatgg aagcggctga tcttttcat 1800
aaaccatgac ttcaagctgg agagagaagt ctggaagcgg ctacacgatg aagggataat 1860

```

1371

```
ccggctgtac cagcgtcctg gtcccggaac tgccaaagcc aagaactgac cggggccagg 1920
gctgccatgg tctccttgcc tgctccaagg cacaggatac agtggaatc ttgagactct 1980
ttggccattt cccatggctc agactaagct ccaagccctt caggagttcc aagggaacac 2040
ttgaaccatg gacaagactc tctcaagatg gcaaatggct aattgagggt ctgaagttct 2100
tcagtacatt gctgtaggtc ctgaggccag ggatttttaa ttaaatgggg tgatgggtgg 2160
ccaataccac aattcctgct gaaaaacact cttccagtcc aaaagcttct tgatacagaa 2220
aaaagagcct ggatttacag aaacatatag atctggtttg aattccagat cgagtttaca 2280
gttgtgaaat cttgaaggta ttacttaact tcactacaga ttgtctagaa gacctttcta 2340
ggagttatct gattctagaa gggctctatac ttgtccttgt ctttaagcta ttgacaact 2400
ctacgtgttg tagaaaactg ataataatac aaatgattgt tgtccatgga aaggcaaata 2460
aattttctac agtgaagatg caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2520
```

<210> 2118

<211> 692

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

1372

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<400> 2118

```
ggntagncaa ntcnctccca tgattacgcc aagctctaata acgactcact atagggnttt 60
gttggtacgc ctgcagggtac cggtcaggaa tccccgggtc gacccacgcg tccgattttc 120
ttcagacaaa actgctcttg tgcaatattt tatgctcagt gagcaaattg tgtatttatg 180
tttatcaatt tgttctcaag gtggctgtct acagacattt gaccaagaca tacatctgat 240
ttacctgtg tttttttttt attggtgttt ttttttaaga cagagattca gtctgtcacc 300
caggctggag tgctgtgggtg tgatcttagc tctctgcaac ctccgcctcc caggttcaag 360
caattttcct gcctcagcct cccgagtacc tgggactata tgtgcgcacc accacgcctg 420
gctaattttt tgtattttta gtagagatgg ggtttcacca tgttggctgg gctgggtctg 480
aactcctaac ctcaagtgat ccaccgcct cagcctccca aagtgctggg attacagggtg 540
tgagccactg caccagcct accttggctg tttgngtctg ggagggtttt ttttttctat 600
tnttattttt tcatgaaaat tattggnggg ccactgaaag tccccacaca caaaagcctt 660
tattctatat aatttataaa cacaatttca tg 692
```

<210> 2119

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

1373

<221> misc feature
 <222> (363)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (374)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (423)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (444)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (451)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (457)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<400> 2119
 gggcatggtg gtgcatgcct gtaattccag ctactcggga ggctgaggca ggagaattgc 60
 ttgaaccceg gagacggagg ttgcagtgc ccgagatcat gccagtgcac tccagcctgg 120
 gtgacagagt gagactctgt ctcaaaaaaa taaaaaataa ataataaata ataataataa 180
 taaaataaaaa ataactgcaa caagccccta gattgacttg aagcctctgt ctgaactgct 240
 ggcggggatcc ccantctccc ccatgtgcct gttcatggca tgcagaggtc agncccttgc 300
 ttcaagcctc ggaccagagt gggccatctc ggtagcata ngacacaang acagaagcat 360
 tgnccctcaag ttttctgaga catgttttgc cctggaagcg gtgatttttg ccatcattgc 420
 tagnaagactt gtcatcgggg cagnatctta ncatcangca tttgctgtcg cggn 474

<210> 2120
 <211> 204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

1374

<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)

1375

<223> n equals a,t,g, or c

<400> 2120

```
tataccacaa atgcagccng gnggagtaca agctcctgnt atacaacagg tgctggctcc 60
nnttcctgga gggatttcac cacagacagg tggcatcatc cagnctnagn aaatctaatt 120
tacaggaaat aaagactcaa gatataccta cgacagtggc agnacctaca ccagnccaaa 180
gcacagataa ctgcaactgg ncag 204
```

<210> 2121

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 2121

```
aattcggcag agttgtgggc cgaagaatat gctcatgtgg tgttgaggaa agcagacatt 60
gacctacca agagggcggg agaactcact gaggatgagg tggaacgtgt gatcaccatt 120
atgcagaatc cacgccatac aagatcccag actgggttctt gaacagacag aaggatgtaa 180
aggatggaaa atacagccag ctttcgtgtc cgaggccagc acaccaagac cactggccgc 240
cgtggccgca ccgtgggttt gtccaagagg aattaagttt ttaggccttg tctgttaata 300
aatagtttat atacctnaaa aaaaaaaaaa aaatttnggg ggggggncccc gtaccattt 360
gcccttn 367
```

<210> 2122

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

1376

<220>
 <221> misc feature
 <222> (234)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (240)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (241)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (242)
 <223> n equals a,t,g, or c

<400> 2122
 ggggggtgect gtacccccca gcctggctgg catcatgcag aggaccttcg cctggctgtt 60
 ggaccgcgtg cagcacctgg gtgcccctgt cacccttcgc gcctcttata tggagatcta 120
 caatgagcag gtctcagccg tcgaaggaac tcagcccaca ccttgaacca ggcctccagc 180
 cgaagccatg ccttgctcac cttttacatc agctccaaaa aaaaaaatna attntttatn 240
 nnc 243

<210> 2123
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (260)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (268)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (293)
 <223> n equals a,t,g, or c

<400> 2123
 ggaaagatag atcctgacca gacagtaatc agagctgagt ctttggatgg tggtagacacc 60
 agttctacag ttgtagaatc tcaagagggg ctttctggca ctcatgtccc agagtcttct 120

1377

gattgttggtg aagggttttat taatactttt tcaagcaatg atatggatgg gcaagactta 180
gattacttta atattgatga acgcgcacaaa atggcccact aattagtgat gctgaacttg 240
atgcctttct gacagaacan tatcttcnga ccactaacat aaatcttttg aanaaaatgt 300
taaagactc taaatcg 317

<210> 2124

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

1378

<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (233)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 2124
gaatcctnnt ggaaaaccnc tcactatagt naaagctggt acncctgcag gtaccgggtcc 60
ggaattcccg ggtcgacca cgcgtccgca ccgggcactt ccaccaacgg caaagncctg 120
gctgccactg caccactcc tggcatcccc atcctgcagn ctgnaccctc cgccccaccc 180
cccaaagccc agncagtttc tcccgtgcag gccccgcccc cgggtggctc annccagctg 240
ctgcctggga aggtcctant gcctctggcc gncctagca tgtcagtgcg gggngggagg 300
gccgg 305

<210> 2125
<211> 330
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

1379

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<400> 2125
gggcaactat tatctcaagt tcagtgtggt gaggtagaag aatcatatgc actttggggc 60
tatcactngn gccatgggta ttcgcttcaa gtcttactgc tccaaccttg ttgcgacttt 120
gatgggtgat ccttctcaag aagttcagga aaattataac tttntgctcc agcttcaaga 180
ggagctgctg aaggaattaa gacatggtga gaagatatgt gacgngtata acgctgncat 240
ggacgtgggt aaaaaagnaga agccagaact gntgaacana aattaccnaa aacctagggt 300
tagggatggg aattgaatcc cgtgaaggct 330

<210> 2126
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

1380

<222> (131)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (224)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (293)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (304)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (317)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (318)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (324)
 <223> n equals a,t,g, or c

<400> 2126
 ggcacgagct cgtgccgaat tcggcacgag cccaaacgga gccacgtgag gacgtctttg 60
 gggatgtgtc tccaagaaaa gtgtgggctg ccttcctcac cctggatgcc tgtgggctgc 120
 cttcctcacc ntggatgcct gtgggctgcc ttcctcacc tggaatgcctg tgggcagcct 180
 tcctcaccct ggatgcctgt gggctgcctt ctcaccctgg atgnctgtgg gctgccttcc 240
 tcaacctgga tgctgtgggc agctttctca acctggatgc tgtgggctgc ttntcaacc 300
 tggntgactg tgggcannct ttentaacct gga 333

<210> 2127
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (203)
 <223> n equals a,t,g, or c

1381

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<400> 2127
gttgaggacc cgctgcggag ctgctgcctg gtggcgcggg acgcccagga gcccgagggc 60
gcgggcagcg actcggggga cagcccggcc agcagctgca gcagtagcga ggactcagag 120
cagcggggag tcggcgccgg ggggtcccag gagggcgcg cccctgccac ctcggccgag 180
aggactaatg ggggtgcgga ccncgcctgg gcttttctga cattcaactnc aactctcgca 240
acacgttcca ggntgagccg cngn 264

<210> 2128
<211> 667
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

1382

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (631)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (666)
<223> n equals a,t,g, or c

<400> 2128
gcaaataattc attatttgtt ctactggaaa taaaaatact aattcaatgg atttgagttt 60
atgtaataat ttacagagtt tttcaatgtg ttttttcaga atggacatgt aaaatttagt 120
tacattccag ggaatttttca ggtgaaaatt agtagatagt taacatgaaa attttatatg 180
aattcatatt ttttcttgga caatatgcta atattttattg atttcacaaa ttacagcat 240
atgggtgatt ttggaagcat tcatagaccc ggaattgttg ttgactatca aaacaaatcc 300
accaatgtna cagttgctgc tgcaagagga ataaanagaa aaatgatgca gccatttaat 360
aagcccagtg gaacctttat caagaaccca aactagcaaaa acctatggag aanataagcc 420
tcagcaaatc accacaaaaa ctgatcctaa aaattgaana agaaaaaaaaa cggcaattga 480
ggtcgcgcaaa aaaaacaaag gccccaaaaa aaaaaacgng anaattcgga aatggatccg 540

1383

aatggcttta atnttctttt gtaatttcaa ctttaaaaaa aaanttgtact gctcggaaat 600
tctcctccga acnttgatct ttcnaaacac ntattgaaaa tttttggatt tgcctatatt 660
tggaana 667

<210> 2129

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1384

<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 2129
tngaataagn aacataacat ttacgggtctt tatgattnaa nagtagtgtg ctagtntaca 60
atcatagaaa gcattattac agttttaaca aaaaagcagt gaaagccttt ttgagatctt 120
tnntatctga ttggaatagc aagtattttt tgttttgatt ncatttttat acatactttt 180
atgataataa ctttaagcat tatctcagat taccttacgg aaaagtgtgg aatcagcatt 240
aagacagtta gaaagagaaa aggcgcttct tcagcacaaa aatgcagaat atcagaggaa 300
agctgatcat gaagcagaca nnaaacgaan tttggaaaat gatgggttgn ggtgnagaat 360
attaaatact catcaagaaa aaaa 384

<210> 2130
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

1385

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<400> 2130
gcgtcagtc cagcttgctc aggatgagcg tgtgtcccg ctttacctcg ccctggccac 60
cgaaaccgtg gacatgttcc acatcctccc ccaaagcaat gtgagtccca gagcccgtt 120
ttgctcgtatg aaagtctgga gtctctgaag cgaatccatg aagtgcagga agagatgaag 180
aacaagaac agtgggacca gttgccccgg gatcagcagc aggctcgtca gtctcagctt 240
gctcaggatg agccgtgtgt ccgctcttac ctngcctgcc accgaaaccg tggacatgtt 300
ccacatcttc cccaaagcaa tgtgagtcctc anagcccgtt tttggtcttt cccacaattn 360
cattactaag aaacacatca aataaactga ctttttttnc cccaaaaaaaa aaann 415

<210> 2131
<211> 499
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>

1386

<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1387

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<400> 2131

```
cggcacgagc atggatgtca tcagcattga caagacggga gagaatttcc gtctgatcta 60
tgacaccaag ggtcgctttg ctgtacatcg tattacacct gaggaggcca agtacaagtt 120
gtgcaaagtg agaaagatct ttntgggcac aaaaggaatc cctcatctgg tgactcatga 180
tgcccgccacc atccgctacc ccgatccct catcaagggtg aatgatacca ttcagattga 240
tttagagact ggcaagatta ctgatttcac caagtctgac actggtaacc tgtgtatggt 300
gacttggagg tgctaacctt gggaggattt ggtgttggtt ccaccagggg gnggcaccct 360
gggtntttta cnggggttca gggnaaanat gccattggaa cagtttttnc ctgggntttt 420
caaatttttt tttttggaag ggaacaanct ggnntttttt ccggggaagg gtttcngctt 480
nccttttttt ggggggggnn                                     499
```

<210> 2132

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1388

<222> (233)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<400> 2132
nangnacgct gtgtaaataa natgcttttg gggctcccct ggccacagaa ggagaaaact 60
ggagccttct aatttcctgt tgtttacttt ccaaaggctg gagttgggta ggaaacctgn 120
gcataccggc acactggctt gtgggtgaac ttctctccct gctgtatttc ccggacaggt 180
gaggcggacc ctgttcatca caggactccc cagagatgcc aggaaggaga ctntggagag 240
ccacttccgg gacgcgtatc ccacgtgtaa ggtggttgat gtncagttgt gntacaa 297

<210> 2133
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<220>

1389

<221> misc feature
 <222> (539)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (544)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (573)
 <223> n equals a,t,g, or c

<400> 2133
 ggccgtgaga ttcncaggag tttccacttg gtgatcagca ctgaacacag accaccaacc 60
 atggagtttg ggcctagctg ggttttcctt gttgctattt taaaagggtgt ccactgtgag 120
 gtgcagctgg tggagtctgg gggaggcttg gtacagccag ggcgggtccct gagactctcc 180
 tgtacaactt ctggattcac ctttggagat tattctatga gctgggtccg ccaggctcca 240
 gggaaggggc tggagtgggt aggtttcatt agaagcaaag cgcattgggtg gacaacagaa 300
 tacgccgcgt ctgtgaaaag gcagattcac catctcaaag agatgattcc acaggcatcg 360
 nctatctggc aaatgaacag cctgaaaccg aggacacaga cattattact gtctagacat 420
 gactacaggc acacccctgg ctactggggg cagggaaacc tggtcaccgn cttctctggc 480
 ttccaccaag ggccatcgtc ttccccctgg ngcccttggt ccaggancac ttccgaaanc 540
 cagnggcctg ggcttgctgg gcaagggctc ttnc 575

<210> 2134
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (52)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (521)
 <223> n equals a,t,g, or c

<400> 2134
 gcgctcaacc ctactaagg gaacaaaagc tggagctcca ccgcggtggc gnccgctcta 60
 gaactagtgg atcccccggt ctgcaggaat tcggcacgag ggagttttca gatcaaaaac 120
 tggttaccat tttttgtcag agtgtctgat gcggccactc attcggctcc ccagaattcc 180
 tagactgggt taatagggtc atattgtgaa tgtctcacta caaaatgact tgagtccagt 240
 gaaatctcat tagggtttta gaatatctca gggatcctta atgttttgat ttttgttttc 300
 tgaaattgga ttttatttta ttttatctta taatttcagt tcatctaaat tgtgtgttct 360
 gtacatgtga tgtttgactg taccattgac tgttatggaa gttcagcgtt gtatgtctct 420
 ctctacactg tgggtgcactt aacttggtga atttttatac taaaaatgta ggataaagac 480
 tattttgaag gtttgaataa agtgatgaag ttgcattaca nctcactgca aggattcttt 540

1390

acttagcttg ttttttag

557

<210> 2135

<211> 552

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

1391

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<400> 2135

```

ncaannnnga cacnaaccct cactaaaggg aacaaaaagct ggagctccac ctgcggtgcg 60
nccgctctag aactagtggg tcccccgggc tgcaggaatt cggcacgagg aggagcccca 120
gtcatgctca gcacgctaca gatgtgttgt ttgtcacact gagattgctg aatgtcgtgg 180
ctgttggctg ccgagcctca gctgctggca tttccttctg ctgtttgctg cttttgtgcc 240
tccccactt tccatcacct ctggagtccc gtctggacgt cccttcctgc tacaggaata 300
atgaggcgtg ggctgcctcc cgctaggcct cctgctccct ntaggtagtt tctngctgag 360
gcttgctaata tggggatgct tcttagagca tcttccacat caactcccct ggctgctggc 420
taccgattaa attcattagt gtgaaagagg tgggagttag gttttctggn ctgaagcagt 480
ctgcactgaa aggtacccaa gtggcctgaa acagtgtagg gaaagacctg ggaaacactg 540
gaccaaaaaa gc 552

```

<210> 2136

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<400> 2136

```

aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgncggccg ctctagaact 60
agtggatccc ccgggctgca ggnattcggc acgagcggcg gcggnccggc cgctccagcc 120
atgccgaata aaaacaagaa ggagaaagaa tcaccaaaaag cagggaagag tggaaaaagt 180
tcaaaaagaag gacaagacac agtagaatca gagtgctact gtctaagagc tggagctaca 240
gagcttgaaa ttaccactga aaacactgaa atgttgggcc cttcactgct tctcataag 300
gataccagag gcaacctggc atattaagct tgacacttgg cagatcactg tgtaaattgt 360
ttttcaggaa tacaagttgg gacacttctg ttcatttgac ctttgagttg acccttaaat 420
tttattattg ttttttttcc cctcagtcct cagctcactg cttcacttct agttccaccc 480
acttaccaaa tatgattgac tcatgcaggt gaattaaacc attattgcac actttttccc 540
tctcctctct ctcagtatta ctcttaactt gaatatttta acctgaacaa tttaaatagg 600
cttgacattc ccatgctg 618

```


1392

<210> 2137
<211> 522
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<400> 2137
anantaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcn gnccgctcta 60
gaactagtgg atcccccggy ctgcaggaat tcggcacgag gaggaatcgt gtgtctgctg 120
ttgatgaact tgcaatggct acagaacgac taagagtgcg tgatcctagg gagccaaagc 180
ctaattccgcc tgtttcttcat atcattgaac cacatgaggt agaacaaaac cgaataaaaac 240
tactaaatga taaagctgtt gctacatcac agcttcagaa aaaacttggg cagcttcttt 300
acctaactaa tttggagaag tctcaagata aaacatcggg aggtgttaat ccagaacctt 360
gcccaatctg tgctcgacag ctaggaaaac agtgggcggt actgacctgt ggtcactgtt 420
tctgtaatga atgcatttct ataattattg aacaatacag cgtgggatct cacagaagct 480
ccattaagtg tgcaatctgc cgccagacca catctcacia ag 522

<210> 2138
<211> 508
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

1393

<400> 2138

```

tganacnaac cctcactaaa gggaacaaaa gctggagctc caccgcggtg acggccgctc 60
tagaactagt ggatcccccg ggctgcagga attcggcacg agctacaact ggagaatcca 120
tccatcaggt gactgagttc ctccaaaggg gacactacta atgtgtctca gacactaact 180
aaggtgagaa ggaatgcact gttgaggggg cagcacatcc ttaagaagct caatgggtggc 240
tgtcccctgc aggctggaat aatgctaggg atgttttata gaactggatc cccagtagt 300
gagtaaaatg atagagttcc agaataacag gggccaagtg gcagcattta actgtgagga 360
caagataaag taatttccgt aaggggcatc aacgtagag tgacaactgg gaggcctgac 420
ctgtaggtgt ccatgaagat ggctcttagg acatgctgtt cctctaggca agacacatat 480
tgcttttagac atataatcaa aagaggat 508

```

<210> 2139

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<400> 2139

```

ccctcactaa nggaacaaaag nctngngctc caccgcggtg ncggccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg agcggtttta ttttcaataa tgaacagctg 120
gctcagatga atgaacagct ggctcaggtg aatgaactaa agaaaatgac ctttcaaact 180
ggctttgaaac aaggtgacag agaaaatgta ctgtgttaata aaaaggagaa aagaataaca 240
aatgagcaag aggaaacata ctctttatcc caaagttcag gtaaatttca ccaggagagt 300
aaatttgata agggtcagaa ttccctaact tgtaataaaaa gtaaagcttc tagacagaca 360
tttgtgattc acaaattaga aaaagataac ttactcccaa accaaaagga taaagtaacc 420
atztatgaaa acctagacgt cacaaatgaa tttcacacag ccaatctttc caccaaagat 480
atggaaattt atgtgattat gggaccaca atatattgga tttgaaaagt atgtcactga 540

```

1394

tattca

546

<210> 2140

<211> 537

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 2140

```

gnacaccctc actaaaggga acaaaagctg gagctccacc gcggtggcgg ccgctctaga 60
actagtggat cccccgggct gcaggaattc ggcacgaggg agattgatga tgactttttc 120
ccaagttctg gggaagaagc tgaagctgct tctgtaggag aaggaggagg aggaggtcgg 180
aaagtgggaa gataccgaga tgatggagat gaagattatt ataagcagcg gttaaggtcg 240
gtctgtgggg attataaata cattgtactg tttgctttat cttagggtgac aggtttatta 300
atatgtaagc attctagatc cagcttaata tattagacct ccccgattat acagaggttg 360
gatttctgca gccittaacct gctagaagca gtggggcccc tgagtcctta atgatgctgg 420
cccaaatgc atgtacttct aggtcttttag ttggatttgg aggcaagtct aagatgaaaa 480
acttaaggga aggctggggc aagaggcata cagagggctg agtgtgagct gtgtcgc 537

```

<210> 2141

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 2141

```

tcaaccctca ttaaaggga caaaagctgg ngctccaccg cgggtggcggc cgctctagaa 60
ctagtggatc cccccgggctg caggaattcg gcacgagatg atattgagac ctctgtcatt 120
taatattggg acaaaattgt atttctaact cacaacaaac agaaaaacta cattagatgt 180
actatcactt tagatttgaa aacaattctt taaaactttt acaagaaaat caaaataaga 240
ctctactgcc tttaatttga ggaagcacat gtcattaagg aaaagactga tgagttcaca 300
tttgctgata aaaataatat aatctgtcca tcctaagtta ggtgtccaac aaatagttac 360
atgtctatcc tctcaccttt catgtcctcc aacacttctc tttaaagagt ggcatagata 420
acatcatgaa agaatgagga aactccagtg caccaaaaaa ttatagagtt tataaatatc 480

```

<210> 2142

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

1395

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<400> 2142

```
ggnganmtca acctcactaa agggaaacaaa agctggagct ccaccgcggt ngcgggccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gaggtctgat ttcttcacac 120
ttgtaaacaa ttgtattata tatgcatact gtatatTTTt tagttataag aagaaaaata 180
ccagaattta aaatgcagtc acaatgtgtt atgttttcag atgacttacg tatgtttttg 240
ttcatcagta ttttaaaaaa taatcacctg tttgtgaaaa taatggtttt gaaaacagca 300
ttatgatgag agggaaacttc gtaatttcat gagaatgtag atggtgactg ttttaagtggg 360
agctcacata ggcattaaca tcaccctcct tttgcacagt ccttttaagt ctcctgttaa 420
acatctttta ttgtgtgtat ttaaaggcac acagatgctt tttcctgtat tcatcttaca 480
aatttaccta catattcagc                                     500
```

<210> 2143

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 2143

```
gangtcnanc ctcactaaaag ggaacaaaaag ctggagctcc accgcggtgg cggccgctct 60
agaactagtg gatcccccg gctgcaggaa ttcggcacga gcttttggct tctagttagat 120
```

1396

```
tactttttttt ttccctgcaa atttgggttt tgattacttg agcatagtga tcaaaaaaga 180
tcactggggca tccatatacc gtttcattaa tgattaatgg actacaatat tgacttgtct 240
catgttatca aagttataat ctgctttata tagcaagttc actttgcttt aaacagcttt 300
taatttatat tattgttctt gaaaagggtga gtaaatatgc aaattgaata attttaaaat 360
ccaagggcag gttttgtgtaag aaacttagag ggcagagagg aatttttgta aagggggaaaa 420
attattttat ttt 433
```

<210> 2144

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<400> 2144

```
gaaaaatcac aagccttctg tacttttagg ctttgatatg tctgaaactta aaaatgtgaa 60
acatagattg aactttgaat atgaaccata aaacttgcaa aaaaaaaaaa aangnacntt 120
taangtagn 129
```

<210> 2145

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

1397

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

1398

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<400> 2145
cgggccccgag atgtctcgct cntttncnt agctntgctc gcgctactct ctctttcttg 60
cctgtaggct atccagcgta ctccaaagat tcaggtttac tcacgtcatc cagcagagaa 120
tggaagtca aatttcctga attgctatgt gtctgggttt catccatccg acattgaagt 180
tgacttactg aagaatggag agagaattga aaaagtggag cattcagact tgtctttcag 240
caaggactgg ctttctatct cttgnactac actgaattca cccccactga aaaagatgag 300
tatgcctgcc gngngaacca tgtgactttg tcacagccca agatagnntaa gtgggancga 360
gacatgnaag cagcatcatg gaggtttgaa natgcccgca attnggaatg gatgaattcc 420
aaa 423

<210> 2146
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>

1399

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<400> 2146

```
gccacagtct aaggtgctgt acattacctc aaatccgatg agtctctgtc aagcaagcag 60
acatcagcca aatgtgaatg atctcttggg tcatggaatg cctctacagc caagaaatct 120
ctccctaata gacaagctcc tagatcttga tgacaagcta cttatgaggc ctgggtccag 180
taccatcctt tcaactcgaa attggccaaa tcgagctgtg gagtttagta catcatctct 240
gtcatacaca gtgcagtcca ccaggagacg caatccacca ccacgaactc ttcatccgat 300
cagcacganc cattcatgtg ctgaaacacc aggatctgtg gaagaaatc tcagaggagc 360
ccgagtccca ntggcaccgg actcgtctct cttctccctc accgacgccc ctgagttgaa 420
attaatctgc taccacctat tgggcacagc tgaagtgnaa acatgtgatc actgtgnngg 480
tcacagagac aagatgaatc cccaatggan actntantc 519
```

<210> 2147

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

1400

<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1401

<222> (484)

<223> n equals a,t,g, or c

<400> 2147

```
aattcggcac gagcattgag gtgcggaatt acagcagatt gaaacctggg taccgatggg 60
aacggcagct ggtgttcagg agtaagctga ctatgcacac agcctttaat cgaaaggaca 120
atgcacaccc agctgagggtc actgccttgg gcatctccaa ggatcacagt aggatcctcg 180
ttggtgacag tcgaggccga gttttcagct ggtctgt nag tgaccagcca ggccgttctg 240
ctgctgatca ctgggtgaag gatgaagggt gtgacagctg ctcaggctgc tcggtgaggt 300
tttcactcac agnaagncca caccatttca ggaactntgg gtcagctctt ctgccagaag 360
tncatcgctt tnaatctgaa tnaaacgttt gaaatttcat cccggtgngt gtttgtcaga 420
cttggtattt tanttccagc ttngggnggt nagaggttgg cncgaatttt gagntcacca 480
gttngtgggc ctggttgcc 499
```

<210> 2148

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<400> 2148

```
gatgaattga gtgaagctct cctacttata aaggctcaaa aagaacaaaa aaatggagac 60
ctttcctttt tagtgaaagt agatagtga attaataaag atctagaacg ctctatgaga 120
gagctgcaag caactcatgc agaaacgggt caagagctgg aaaagacaag aaacatgcta 180
attatgcaac acaaaattaa taaagattat cagatggagg ttgaggcagt gacccgtaag 240
atggaaaatt tgcagcaaga ttatgaactc aaagtggaac agtatgttca tcttcttgat 300
atcagggtctg cacgtatcca taaactagaa gaagctgtaa gtttggggag catataagtg 360
ttcttcagct gttggagttt tgcataattc ccatanccaa aattttcaca gaaaagcaag 420
gcagatatcc acgttggtga tatttgggtt gcctctgtat ataacggtga a 471
```

<210> 2149

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1402

<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)

1403

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 2149

```
ggaacggggg ggaantgtga acctcttaaa gttgggtcccc tgccngtacc ggtccggaat 60
tcccgggtcg acncacgcgt ccgtncaaga tggtgccacc ggtgcaggtc tctcngctca 120
tcaagctcgg ccgatactnc gncctgttnc tcnatagtgg cctacgganc cacgcgctac 180
aattacctaa aacctngggc agaagangag aggaggatag cancagaaga gaaagaanaa 240
agcangatga actgaaacgg attgccagaa aaatggcaag aaagatgcag cattattaaa 300
agtgaagttg aannatgmng aaccanttct tttggaacca ancat 345
```

<210> 2150

1404

<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<400> 2150
agtcgctctc ctagecccttc tntgtgcctc agcctctggc aatgccattc aggccaggtc 60
ttcctcctat agtggagagt atggagggtg tgggtggaaag cnattctntc attctggcaa 120
ccagttggac ggccccatca ccgccctccg ggtccgagtc aacacatact acatcgtagg 180
tcttcagggtg cgctatggca aggtgtggag cgactatgtg ggtgggtcgca acggagacct 240
ggaggagatc tttctgcanc ctggggaatc agtgatccag gtttctgggn agtacaagtg 300
gtacctgaag gaagctggta ttttntgaca gacaagggcc gtatct 346

<210> 2151
<211> 330
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

1405

<220>
 <221> misc feature
 <222> (203)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (221)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (223)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (251)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (258)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (268)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (298)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (330)
 <223> n equals a,t,g, or c

<400> 2151
 gcagggggct gctttgcac tgaactgtc agccccagaa tgttgacagt cgctctccta 60
 gcccttctct gtgcctcagc ctctggcaat gccattcagg ccaggtcttc ctccatatagt 120
 ggagagtatg gangtggtgg tggaaacgat tctctcattc tggcaaccag ttggacggcc 180
 catcaccgcc ctccgggtcc gantcaacac atactacatc ntnggtcttc aggttgccta 240
 tgggcaagg tnttgaaacnaa ctattttngt ttgttccccca accggaaaac ctggaagnaa 300
 aatcttttct tgcctccctt ggggaaatcn 330

<210> 2152

<211> 544

1406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<400> 2152

```

tttttttagc atcatgttta cgcccttgga cagatacant gatagaaata tgcaaattaa 60
tagacatcaa tactgtgCGT taaaggctat gtctgctgta ctgtgttgTG gccctgTTgc 120
agataatgta ggactttcat cagatggcta tttgtacaaa tggttggata acatttttTga 180
ttctctggac aaaaaggTtc accagctggg ctgtgaagca gttacgttGT tactggagct 240
gaaccctgat cagagcaacc tgatgtactg ggctgtggac cgctgctaca cgggctccgg 300
gagggtggcg gccggctgct ttaaagccat tgctaattgt ttccagaaca gggattatca 360
atgtgacaca gtgatgcttc taaatctgat actgnttaaa gcagctgatt cttctagaag 420
tatctatgaa gttgctatgc aacttttaca gattctggaa ccgaagatgt ttcgctatgc 480
tcacaaattg gangttcaga gaacagaatg gaggactcac ccagtggntc cnttacacaa 540
tntn
544

```

<210> 2153

1407

<211> 236
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<400> 2153
gcggacgcgt gnttggacgc gtgggtggag cagtcttcca aatttatatt atcaaggacc 60
tgagagaagct actcatgata gcaggagaag agcgggcact gtgtcttgtg gacgtgaaga 120
aagtgaaca gtccctggcc cagtcccacc tgcctgcca gcccgacatc tcaccaaca 180
tttttgaagc tgtcaagggc tgccacttgt ttggggcagg ccaagaattg agaacc 236

<210> 2154
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>

1408

<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1409

<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)

1410

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 2154

```
ggcgccgtgt gcggttaggg cttctgccgc tcctccacgc ttgngcagca tnaccgggtc 60
cacantggcg agcggcctta caagtgcgat gactgcngaa aggccttntc ccanagctcn 120
gacctcattc gccaccaacn gacccacncn gnagaccnnc nctnacctgg ggccccagca 180
tggggtggnag gtgtnggcag aagataatgg nccngggagc tanaggaacc tttagggatg 240
atagtgtaga agccgtagga gaatggaatg agctgangat gctggaanaa gagaaccant 300
ggtggaggaa gtgacatgcc ctgnagactt gtgggaagtg gtttgtaggg aggccatgnc 360
ggtatacggg aggccttgan agaaatggag agaggtcaan tn 402
```

<210> 2155

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<400> 2155

```
gtgaacttcg gtgttcctta cagttagcgg aaacggaaaag ggaaggagga ttttctccac 60
acatttctcc tttcactgct gtcaatgacc tgggacatct gcttgggaga gctggcttta 120
atactctgac tgtggacact gatgaaattc aagttaacta tcctggaatg tttgaattga 180
tggaagattt acaagaacaa agtccagaa tggtgacctt attttacaaa acaagctgca 240
tatcagctga tgaatgcatg agaaattttc aaggcttttca cagtgggtctt aaggtatggg 300
tganagtaac tgtgcttgga atagaaaagc cctgctgcat cgagacacaa tgctggcagc 360
tgcggnagtg tacagagaaa tgtacagaaa tgaagatggg tcagtacctg ctacatacca 420
gatctattac atgataggat ggaaatatca tgagtnacat gcaagaccaa cttgaaagaa 480
gtttccgaac tgtggcattt tg 502
```

<210> 2156

<211> 464

<212> DNA

<213> Homo sapiens

1411

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

1412

<400> 2156
cccntagnaa actcccnntg gaaggaccgt tgggacgcct gtangtaccg gtccggaatt 60
cccgggtcga cccacgcgtc cgcccacgcg tccgcccacg cgtccgggag ttccggaaag 120
ccaaggccag ctccacaggc agcttcacag cacctgatcc cggcctgaag cgcaagtccc 180
ctcctgaggc cctgtcaggg tccttaccce cagccaccac ctgccccgcc tcgtccaacgc 240
ctgcgcccac tatcatccct gctccagctg cccccgggaa gccagcctcc gcagccaccg 300
tgaagaggaa gcggaagagc cgggtgggggc ctgaagagga taaggtagag ctcccacctg 360
ctgaactggt gcagagggac gtggatgcct ctccctcgcc tntgcagntc aggacctcaa 420
ggggctcggg tatgagaagg ggaagcctgt gggncataang ggcg 464

<210> 2157

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<400> 2157

1413

```
tggactnctc ccggtaccgg tccggaattc ccgggtcgac ccacgcgtcc gcggacgcgt 60
gtttcgccctt ttatgcctat cactaccgct tcaatgggca gtatagcagc ctggccctgg 120
tcacctactg gctcttcatc caggtgaggc ctgggcggca agcagggggc aggccagccg 180
tgccctttcca ggcaggagag gctgcagccg gngaggatgc cctgtggggg cggcccaagc 240
gggcagaggt agcgtggatg gtcccggntg ggctgncctc tgnnagcagc ggctgggtgg 300
tcaagggcgg ncccg 316
```

<210> 2158

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

1414

<400> 2158

```
ggcacgagcg cttgtggagc tgggtggcggc gctcccaggg gctcggctgt tttccgcgcg 60
gcaggncctcg atggcgcaact gggtaaagct ctcaaggagc agaagtacga ccggcagctg 120
aggttgtggg gtgatcatgg gcaagagget ttagaatctg ctcatgtttg cctaataaat 180
gcaacagcca caggaactga aattcttaaa aacttggtac taccaggat tggttcgttt 240
acaattnatt gatggnaatc aggtcagcgg agaagatggc tggaaaacaa tttnccttcct 300
tcaaagaagc anttntcggg caaaaaccga gctggaaagc ngaccatggg aatttcttan 360
ca 362
```

<210> 2159

<211> 79

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<400> 2159

```
gacctcgctcc gccaaaggatg tgccagccgg cagcttgccg actgccctca atgagctcaa 60
gagactgata canagcatt 79
```

<210> 2160

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1415

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<400> 2160

```
gggtatgcag taacatttca gaatgttttg tgtgcgtgtg aaggggtgcac aggtgcgtgg 60
ggatggggag ccaggctcag aggtggacgc tggctgectg ggccacctcc tttcccagagc 120
cccatctggt cgagcagaga gcagagggag agggagtgtc ccggtgceca ggctcccaga 180
gtgctgtcct ctgcccggtt cgtcaagtcc aggtagtgga tcccagtgga gcttcggtgc 240
tggagggcgtc tctgcctcgt ttccggctcc atgttaecgt cttagaaacg gagttgattg 300
tggttgaggg ggaaggaagg gttccccgca nacgtcctct ctcttctaca aagtgtgggc 360
aanagccagg gccagtgagg gctgctgtgc atgagtggcc tgagacaaag cgctgtncnc 420
cgttgagana tgggctccna agaaac 446
```

<210> 2161

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

1416

<223> n equals a,t,g, or c

<400> 2161

```

gggcctgtcc acgtccccct ctgtccttaa ctccaggaga ccttggctca cgtggacagc 60
aatggagttg ggggaagggc cctgaaggca gccccaggcc tgactgtggg cctccagcta 120
caggcatattg tgtttgggca ccagctaccc cacatcccag ccggtcatct ctgggcataa 180
acccccaccc cccagaaagg aggcttcctg tccctcttgg gcaccagctc agccaaaagc 240
cagaaagctg ctctggagca taacctgacc cccccacggc gaggcagggc agtcttctct 300
ggctggcact gctctgggca tagaattgat ccttcatcaa nctttacccc aaaaaagaag 360
ngtcttcctg ggtgaaggac aaagtngggg aaggcaacan ggctgggggt taaangccct 420
tcaccagcca ttcaagggtt gccttttnaa 450

```

<210> 2162

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<400> 2162

```

agcttcctct gggaaacgcc ccantatagg gatagctggg acgcctgcag gtaccgggtcc 60
ggaattcccg ggtcgaccca cgcgtccggg acccaacttc tctcaccgcc atggagttcg 120
acctgggagc agccctggag cccacctccc agaagcccg tgtggggggc ggccacgggg 180

```

1417

```

gagatcccaa gctcagtcct cacaaagttc agggcccggtc ggaggcaggg gcagggtccgg 240
gtccaaagca aggacaccac agctcttccg actccaagca gcagctccag cgattcggac 300
acggatgtga aggtaagggg ctctcgagc gtcccaagca cgtgccctgc accccanaga 360
ggcgtccccg actggggctg gcggngaggg tgcnnngagt ggtcc 405

```

<210> 2163

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<400> 2163

```

gggggcttgg cctcaagcat ctctggaagc ctgctgtgga ggcctatgga gagtttctct 60
gcatgtttga ggaaaattat cccgaaacac tgaagcgtct ttttgttgtt aaagccccca 120
aactgtttcc tgtggcctat aacctcatca aaccttctct gagtgaggac actcgtaaga 180
agatcatggc cctgggaggt ggcagtttat gtcagatgga gcggatgttg gttttgggat 240
tttctgaag accnagatgg gagaanagc ancngncagn 280

```

<210> 2164

<211> 488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

1418

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 2164
tggcgacact ggatcgnaaa gtgcccagtc cggaggcggt tctggggcaaa ccnnggtcct 60
cctggntcga cgncgccaaa ttacactgct cgcacaatgt agatttagaa gaggctggaa 120
aagaggggtgg aaaaagcagg gaggttatga ggcttaataa agaagatatg cacttatttg 180
gccattaccc agcacatgac gacttctatc tcgtagtgtg cagtgcctgt aaccaggctc 240
tcaagccaca ggttttccag tcgcaactgcg ccggggcctgc aactgttcca ctttctggat 300
cctccttcag cttctctgac tcctggggcca ggtgtgtgca tttagctcca tgctgaagag 360
ctgcagcttc tgcaggacat ttgtaccatc gaggtcaaag gcaacaagaa gtgacatgag 420
tttcagtcca tcttcatgag gttccagtta aggctgtga attcgcaatt gttcttcccc 480
actgcctg 488

<210> 2165
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

1419

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

1420

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>

1421

<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1422

<222> (376)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (446)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (454)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (477)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (484)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (497)
 <223> n equals a,t,g, or c

<400> 2165
 ggttaaaagt ggantgtatg ttgtnataga agttaaagtt gcanctnatt atggaataga 60
 nataacctgt cnaanttatc tgatgacana ttaccaangt gctcccccat cccacagta 120
 tagaangatt atttgcattg gtgcanaana naatggnttg ccgctggant atcaanagan 180
 gttaanagcn ttanaaccaa atgactatac ntgaaaggtc tcanaagaaa ntgangacat 240
 catcannaag ggggaaacac anactcttta gancataaca gaatatatct aagggtattc 300
 tatgtgctaa tatanaatat tattaacact tganaacang gatctggggg atctccacgt 360
 tngatccatt ttcannagtg ctctgagagg agtatcttac ttgggggtgac tccttgtttt 420
 tagactatac tcagaaactg ggatangggag ttanaccatt taaaacgggt gtatganggc 480
 ctgnaatatg tgacaantga at 502

<210> 2166
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (36)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

1423

<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)

1424

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

1425

<400> 2166

```

gcgggtgccg agcactgcct cccgggcttcc cccaangacc acgcttagcg gtggcttctt 60
cgttgctgta attgaacggg tcnanatgcc nacgtgagtg agtgggggca tgcttgggaa 120
gcgcaggatg gtactggcac atctaacatc tacacttctc tagctcanc cccacaggcca 180
aagcatcagc accanaacgc acacccancc catccccnna nagaagaan gaaacagcca 240
agacccacc cggtgcttgc acaccgcctt tgcacatanc aaaagctcca ngnttactcc 300
ttcctgggtg ggaaaanaaa atgcctntcc tctccctgga aagacctggg cctccccgc 360
aggcaacaat ttgcattttg aaaagttatt gggttccctc ctcnnggctg tnttcttgct 420
tgtaaccaa aatttttcct nccnaaatta aatnc 455

```

<210> 2167

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 2167

```

gaaagagttg gaattgtaca aagaggaact tcagacaaaa cctgcactct tggcagttaa 60
taaaatggac ttgccagatg cccaagataa gttccatgaa ttgatgagcc agctccagaa 120
tcctaaagat tttctgcatt tatttgaaaa aaacatgatt ccagagagga ctgtagagtt 180
ccaacatatc atccccatat ctgcagttac tggagaagga atcgaagaat taaagaattg 240
tataagaaag tcaactggatg aacaggccaa ccaggaaaat gatgcacttc ataagaaaca 300
gttgcttaat ttgtggattt ctgatacaat gtcttctact gagccaccat caaagcatgc 360
tgttactact tccaaaatgg atataattta aatatattaa aaatggtatt gatggaacag 420
taaaaaaaaa annnnn 436

```

1426

<210> 2168
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>

1427

<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1428

<222> (444)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (482)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (483)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (526)
 <223> n equals a,t,g, or c

<400> 2168
 aggaaacagc tatgaccatg attacgccaa gctctaatac gactcactat attnganngc 60
 tggtagcgct gcaggtagcg ggccggaatt nccggatcga cccacgcgtc cgctggagag 120
 agaccttttcg aatgtattga atgtggaaag gccttttagta atggttcatt ncttgetcag 180
 catcagagaa ttcatacagg agagaaacct tangtgngna atgtgngngn gaaagccttt 240
 agccatcgtag gatacctaata gtacatcag agaattcata ctggngagag accctacgaa 300
 tgtaaggaat gtangaaagc cttcagncag tatgcacacc ttgctcaaca tcagagagtt 360
 catactggag aanancctta tgaatgtaaa gtattgtngg aaagccttca gncaaattgc 420
 ataccttgat caacatcaga gggntcatatc tggagagaaa ccctatgaag gtattggaat 480
 gnnngaaggc ctttagcaat agttcatcac ttgcacaaca tcagnngaag catactggag 540
 aa 542

<210> 2169
 <211> 429
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>

1429

<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1430

<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)

1431

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

1432

<220>
 <221> misc feature
 <222> (376)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (379)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (388)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (392)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (394)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (402)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (403)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (428)
 <223> n equals a,t,g, or c

<400> 2169
 ataatcggga tcaggtgcgc gttctcgcgtg ataaacgggt gaagtnacca gacggtgccca 60
 agncttntnc tttatgcagt ccctgaacta ccaggaagat aaacaccacc atgatggaga 120
 ttgacaccag tacaacacagg gtattgaagt tagcgaccag gttgacgctc ttcagattcg 180
 cggcggttaa aatggcgacg aggttaccac ccacanccan ggggggcact ttccgggggaa 240
 gagggcgggg agatagattt tnggccaaca agacgttaat natngggcaa aaanggggnt 300
 aattccagcn agggntgnnc caggcngntc cataaantnc cgngnggggg gntnaaatnn 360
 gntttntnnn gnggnnggnt attaggnccc cnanccgttt anngggggaat ttgggggggaa 420
 gccatttng 429

1433

<210> 2170

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<400> 2170

gcgggacgcgt gggttctagt cgttttcaaaa gcgcctcgcg ctgatttctca cgggccccggc 60
tgccggcccc cgctctgccc tggattggta gcttatgtcg atcttgatga aagagcaatt 120
gatgctctca gggaatttaa tgaagaagga gctctgtctg tactacagca gttcaaggaa 180
agtgacttat cacatgttca gaacaaaagt gcatttttat gtggagtat gaagacctac 240
aggcagagag agaaacaggg gagcaagggtg caagagtcca caaagggacc tgatgaagcg 300

1434

```
aagatcaagg ccttgcttga gagaactggt tatactctgg atgtaaccac aggacagagg 360
aagtatggtg gtccttcacc agacagtgtg tactctggcg tgcaacctgg aattggaacg 420
gangtatattg taggcaaaat accaagggat ttatatgagg atgaattggt gccccctttt 480
gagaangccn gacccatttg ggatctacgt cttatgatgg atccactgtc cggcagaata 540
ganggtatgc atttatcacc ttctgnggna aaggaanctg ncaggaagcc c 591
```

<210> 2171

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<400> 2171

```
cgcgagccga ccaaaggaac cataactgat ttaatgagct aatacatgcc gacgggcgct 60
gaccccccttc gcgggggggga tgcgtgcatt tatcagatca aaaccaaccc ggtcagcccc 120
tctccggccc cgcnngggggg gcgggcgcgcg gcggttttgg tgactctaga taacctcggg 180
ccgatcgcac gccccccgtg gcggcgacga cccattcgaa cgtctgccct atcaactttc 240
gatggtagtc gccgtgccta ccatggtgac cacgggtgac ggggaatcag ggttcgattc 300
cggagaggga gcctgagaaa cggtaccac atccaaggaa ggcagcaggc gcgcaaatta 360
cccactcccg acccggggag gtagtgacga aaaataacaa tacaggactc ttctgaggcc 420
ctgtaattgg aatgagtcca ctttaaattcc tttaacgagg atccattgga gggcaagtct 480
ggtgccagca gccgcggtaa ttccagctcc aatagcgtat attaaagttg ctgttg 536
```

<210> 2172

<211> 252

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

1435

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 2172
tctagaacta agtggatccc ccgggctntn tgaatttggc acgaggcaac gcctacgggg 60
ggaggntnaa tggcncggac atggaagccc acgctgggtca tcctgnggat caaacgggct 120
ggccgatgcn tgcgctgggn ccccaacgag aacaagggtg ctgtgggcaa cggatctngg 180
gaganctcca tctggtatatt ccagcaagga gaatgactag gnggggttag caaagcacat 240

1436

naagaagncc at

252

<210> 2173

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<400> 2173

```

gatttttnacc aaatgtttaca agaaattcaa gaagtgaataa ctcttgaaga actagagacc 60
tttatgtctta aacatggaga aaatattatt gatacttttag gagctgaagt agatagactt 120
gagaaggaac tgaaagtaag atgtattcat aaaaataaca taatgataat ggcagctatt 180
tttttgagta cttactctac agcagacact aagtgcattc atcacatgca tgctttaacc 240
cactcataac tccacagtgt gtaggtatatt ataagcaaga aaatgactgg gttagataag 300
ttgaataatt tacccaagga aataggggaaa ttgngatttg aaccagattc tttacttttt 360
aaacactatt tatgcagcct gcttagtttc taaaatagtc aaaggggggtt tttttggttg 420
gtaataaata acatttttgaa agtcctanaa naaagatgaa aagggaacttt anactnnngg 480

```

1437

<210> 2174
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

1438

<220>
 <221> misc feature
 <222> (353)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (398)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (407)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<400> 2174
 gtggaagtgc tgtgccatgg gcagcttcga cttggagata gagaactcag aanacagatt 60
 cccagggggga gtgagataaan cacaccatct ctacaggggt tacagcttcn ccatggggctg 120
 ctggcccaag aatggacttc tanacatgaa caagggcctc agcctgcaac acataggccg 180
 gccccacacc ggcattgacg actgcaagaa acattgccna catcatgaan aactcgcct 240
 atcgaggctt catcttcaag cagacatcna anccgttctg attggcccaa gacaagatgg 300
 ggcacgacaa ggtactgtt tggcccaccc aaaatcctcc tctccctcac canaagggaa 360
 aaaggaaaat ggcatactct gtgtccagaa tgtcccanct gcctgtnggc tctgcccttg 420
 gcgttggctt ttcccttgca agggctntgc ccttgggcct tctggaacaa aacttttttc 480
 ccccatccc accctcatct caccagtat caccctccc ttgcgggctg ggctagggga 540
 accaggatcn cccctctccc tggtcacagg c 571

<210> 2175
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (245)
 <223> n equals a,t,g, or c

<400> 2175
 cacaggcggc tgtgcctaaa caggaggagg ccattcacgc ctgcctgag ttgtgtccaa 60
 ggtgtgctg tggccagggg tccatccgct tccctctagc ccagcccctg aacacagctg 120
 cagtgcacgg cccactcct cagctctgct cccatccca actcgaagac gctgccctgg 180

1439

```
ccctgtgtgt gcagctcatg tggactggga gggcagggca ggtgcaggtc ttggggcaag 240
agctngagct gtcttttctt tcttgcacag ccgcagagca ggtggatggg gctgcttccc 300
tgcaaggccc cagggccagg ccccttgggg atttattcgt ggcttagaag ggtggggcca 360
gaagcaggcg tagtggggat tagggactca gcacccccag ctctcagtc agcagacaga 420
ccccccccag gctgactaca gaggct 446
```

<210> 2176

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

1440

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<400> 2176
gagggaaaaag gccttgaagg gccattagac ctgataaatt atatagacgt tgcccagcaa 60
gatggaaaagt tgctttttgt tcctccggag gaagaattta ttatgggagt ttccaagtat 120
ggcataaaaag tatcaacatc agatcaatat gatgttttgc acaggcatgc tctctactta 180
ataatccgga tgggtgtgta cgatgacggt ctggggggcgg gaaaaagctt actggctctg 240
aagaccacag atgcnagcan tgaggaatac agactgtggg tttatcangt gcaacannct 300
ggaacaanca caagccattt gcanggctnt atacaccgct tttgactctg tattaacatc 360
tgagaaaacc ttgnatcctt nnaattaaagt agaagnctaa cttnatctga aaagttcatc 420
tgttttcaaa ctgcaatgct gaaatgttat tg 452

<210> 2177
<211> 368
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>

1441

<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<400> 2177
ccgccgcggt acacggccgt atattactgt gcgagagatc ccacggagag atggctgtca 60
cagaaatccg tactactttg actactgggg ccagggaaac cctggtcacc gtctcctcag 120
cctccaccaa gggcccatcg gtcttcccc tgggcaccct cctccaagag cacctctggg 180
ggcacacggg ccttgggctg cctgggtcaag gactacttcc ccgaaccggt naggtttctt 240
ggaaactcag gcgcctnac cagcgggggt tcacaccttc ccgggtgttc ctacagtcct 300
caggantcta ctccctcagn agnttnntta accgtgccct ccgagaagct tggggaccaa 360
aaactact 368

<210> 2178
<211> 359
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)

1442

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<400> 2178

```
gcaccattcc ggggccccaa ggaccggggc cgcaagttgg ccgaggtggg cagccacgag 60
aaggtggggc agnaccatg ctgcgtgcgg ctggagcagg cctgggagga gggcggcatc 120
ctgtacctgc agacggagct gtgcggggccc agcctgcagc aacactgtga ggcctggggg 180
gccagcctgc ctgaggccca ggtctggggc tacctgcggg acacgctgct tgccctggcc 240
catctgcaca gccagggcct ggtgcacctt gatngtcaag cctgccaaca tcttcctggg 300
gccccggggc cgctgcaagc tggttgactt cngactgntg gtanacttgg gtacagcna 359
```

<210> 2179

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

1443

<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1444

<222> (296)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (297)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (346)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (363)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (407)
 <223> n equals a,t,g, or c

<400> 2179
 gcgggcagcag caatcatata ccaaattctct ccctcactaa acgtaagcct nctcctcact 60
 ctctcaatct natccatcat agcaggcagt tgagggtggat taaaccaaac ccagctacgc 120
 aaaatcttag catactcctc aattaccac ataggatgaa tnntagcagt tctaccgtac 180
 aaccctaaca taancattct taatttaact atttatatta tcctaactac taccggatnc 240
 cnactactca actnngggtc cagcaccacg ancctacnan tatctcgman ctgaannaat 300
 ctaacatgac taacaccctt aantccatcc accctcctct ccctangaag cctgcccccg 360
 ntnaccggct ttgagcccag atgggccatt gtccaaaaaa acacctnaaa c 411

<210> 2180
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (540)
 <223> n equals a,t,g, or c

1445

<400> 2180

```
gctcgcgccg aggggctgcg agagtgaccg cggctgctcc agcgcctgacg ccgagccatg 60
gcggaacgagg agcttgaggc gctgaggaga cagaggctgg ccgagctgca ggccaaacac 120
ggggatcctg gtgatgcggc ccaacaggaa gcaaagcaca gggaagcaga aatgagaaac 180
agtatcttag cccaagttct ggatcagtcg gcccgggcca ggttaagtaa cttagcactt 240
gtaaagcctg aaaaaactaa agcagtagag aattacctta tacagatggc aagatatgga 300
caactaagtg agaaggtatc agaacaaggt ttaatagaaa tccttaaaaa agtaagccaa 360
caaacagaaa agacaacaac agtgaaagta agtgtcccca gatgcttggt gcaaataaaa 420
agatggatac tttaaagatt aatgttgagt atacatctac cacacatatt tttcagccca 480
gagacatddd tcctttttgtc aaacacgtga aagtttgggg agaaaggctg aatctgttgn 540
gggaggggttc taattdtttta taggctcttt gactccattc ccaccctttt aagttcacgc 600
ttaagttggt                                     610
```

<210> 2181

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<400> 2181

```
gaggtaacca cgtttcagct cgctgtattg tttgcatgga accaaagacc cagagagaaa 60
atcagcttttg aaaatcttaa gcttgcaact gaactccctg atgctgaact taggaggact 120
ttatggtctt tagtagcttt cccaaaactc aaacggcaag ttttgttgta tgaacctcaa 180
gtcaactcac ccaaagactt tacagaaggt accctcttct cagtgaacca ggagttcagt 240
ttaataaaaa atgcaaagggt tcagaaaagg ggtaaaatca acttgattgg acgtttgcag 300
ctcactacag aaaggatgag agaagaagag aatgaaggaa tagttcaact acgnatacta 360
agaacccagg aagctatcat acaaataatg aaaatgagaa agaaaattag taatgctcag 420
ctgcagactg aattagtaga aattdttgaaa aacatgttct tgccacaaaa ggaaatgata 480
aaagtgcaat agagtggcta atag                                     504
```

<210> 2182

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

1446

<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<400> 2182
gatgaccggc tgcgggaaga gcggg'gcac gcgctcaaga ccaaggaaaa gctggcacag 60
accgccacgg cctcatcagc agctgtgggc tcaggccccc ctcccagggc ggagcaggcg 120
tggccgcaga gcagcgggga ggaggagctg cagctccagc tggccctggc catgagcaag 180
gaggaggccg accagccccc gtcctgcggc cccgaggacg acgcccagct ccagctggcc 240
cttagtttga gccgagaaga gcatgataag gaggagcgga tccgtcgcgg ggatgacctg 300
cggctgcaga tggcaatcga ggagagcaag agggagactg ggggcaagga ggagtcgtcc 360
ctcatggacc ttgctgacgt cttcacgggc ccagcttctg cccgaccaca gaccctggg 420
ggggcccaca cccatggggt gntgccgtcc cacgggttgc ccaacttgga cccctggggc 480
gggccccctg tnccttcanc tgctgnatcc cctggggaag gttcaan 527

<210> 2183
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>

1447

<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<400> 2183
gccntngcgt ccgattttaa tgacatctat gaggaagagc cattttaattt tcaaattgggc 60
tataatgagt ttcagaagtt tggtcaaagg aaagcacatt ccgtttataa ttttgaaaaa 120
cctgttgtca tgaaggcttt tgaacacttg cagcaattag aattaataaa gcccatggaa 180
agaacttcag gaaattcaca gagagagtcc agctgatgaa actgcttttg gataatactc 240
aaattatgaa tgctctgcag aaaatatccc aactggngta cagatgngaa gccangggcc 300
acatcctact taacctgggt ntggaatnta acc 333

<210> 2184
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

1448

<400> 2184

```
gctcgtgccg aattcggcac gagtttggac caatccacaa ataaaattgt ctctgactga 60
gaaagatgag gggcaggagg agtgtagttt ccttgtagcc ctgatgcaga aagatagaag 120
gaaactcaag agatttgggtg ccaatgtgct gacaatcggc tatgccattt ataattgccc 180
taacaaaaaac aaannctnaa acaaaaatcc tccaaatccc nctcncctcg          230
```

<210> 2185

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

1449

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<400> 2185
tnnccacnac tncatatnggg aaagctggta cgccctgcagg taccgggtccg gaattccccg 60
gtcgcacccac gcgtccgaag gctttgaaga gaggetccct gctgggctgc ttcattgata 120
ccagaagtgc tgcagaatct gagggcccgga cgccgtttgg tcttattaag ggtcatgcct 180
acagtgtaac gggaattgac caggtaagct tccgaggcca gagaatcgag ctcatccgaa 240
tccggaaccc ttggggccag gttgagtgga acgggtcgtg gagecgacagt tctccggagt 300
ggcgttctgt tgtccaactg agcanaagcg tctgtgtcac actgntctgg atgatgggga 360
attctggatg gcatttaagg acttaaggcc cctttgataa antgganatc tgcancct 418

<210> 2186
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>

1450

<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<400> 2186
ggtgctgact ctgcaggggg atgccctcag ccaggcggat gtgaacctga agatgccccg 60
gaacaaccag ctgctgcaact tcgccttccg ggaggacaag cagtgggaagc tgcagcagat 120
ccaggatgcc agaaaccatg tgagccaagc catttacctg cttaccagcc gggaccagag 180
ctaccagttc aagacaggcg ctgaggtcct caagctgatg gacgcagtga tgctgcagct 240
gaccagagcc cgaaaccggc tcaccacccc cgccaccctc accctccccg agatcgccgc 300
cagcggcctc acgcgggatgt tcgcccctgc cctgcegtcc gacctgctgg tcaacgtcta 360
catcaacctc aacaagctct gcctcacggt gtaccagctg natgccctgc agcccaactt 420
caccaagaac ttcgccanct gggggcgcg gnetgcataa ccctggggcc atgttcnaat 480
ggggctttta cgcctggang tgaaccacgt nc 512

<210> 2187
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>

1451

<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1452

<222> (418)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (420)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (421)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (422)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<400> 2187
 aaggtgatcc agacgcaana tggctgtcct ctctaangaa tatggttttg tgcttctaac 60
 tgggtgctgcc agctttatna tgggtggncn cctagccntc aatgtttcca aggcccgcaa 120
 gaagtacaaa ntggagtggga cacttccatt angattctca cacactcaat ttctgttctt 180
 ctattaaggg aaatcttaaa angatgtggg atttgatgac tcttaagaag ntctatatcc 240
 ctacantatc tttgtgatgc atctgaaatc cccattgatg cttnacgtca atgaaaagca 300
 cngaattggn gcaaagctgc ctctttccct tntgcaacta cagcgcaaan atacatcctt 360
 attcctggat atttaataaa aacattgact ctgcttctga aaattgaaaa ccttgtcncn 420
 nnaattttta accaaaattg aatgggtctct tcnagggt 458

<210> 2188
 <211> 337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (44)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (62)

1453

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

1454

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<400> 2188
gcccacgcgt ccncgctgcc cagcctccgg cccgaggccg ctgnccagct cctgcgctcg 60
gngcccaagg tctgcgtcac cgtcctgccc cccgacgaga gcggncggcc ccgcaggagt 120
ttttcggagc tgtacacgct gtcgctgcag gancctagcn ggcggggggc nccagatnct 180
gtgcaggatg aggtcnaggg ggtgaccctg ctgtccacca naaancagnt gctgcacctg 240
tgcctgcaag atggtggtaa gtcctccang gcctggngat ctggccnagg agangactga 300
gttcctgcac agtcagaact cgctgtnact acgcaag 337

<210> 2189
<211> 526
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1455

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 2189

```
gccccacgcgt ncggagccac agaaagtatc gacattaggg aaaagcaacg tgatagtaac 60
gggagcaaac tttacccggg catcgaacat cacaatgac ctgaaaggaa ccagtacctg 120
tgataaggat gtgtgagtcg aaataactaat aattttatcct cggtaacgta acgctcaaac 180
ctgtgccaaa ggaatatcag tgtgattata accttaatat agtcaaatta ttgccatgcc 240
ccaaagcagg ccaattagtc agagtatttg acataatata attccaacac gtaaaataat 300
tttcacaaca gatctgaagt tcattgngag agaactctgtt ctgtgttatt ccccaaaaat 360
ctcaagtata tagtcatttc aagatgttgc ctgggtgggg tcttgattca ttttcagtaa 420
caaaatcaag tatatggagt acaaacatna ttctttaagg tgatgcactt tggaaaaaaa 480
nmtgagtccc ttgnaatttg atgaaggaat tttttgggag caantt 526
```

<210> 2190

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1456

<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)

1457

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 2190

```

atnngncacgn gaccctttga ggantacta cgantcacta tagggaaagc tggtaagcct 60
gcaggtaccg gtccggaatt cccgggtcga cccacgcgtc cgcggacgcg tgggtgggca 120
tgcagctgga cagagcaagc agctctctgt atgttgcggt ctctacctgt gtgataaagg 180
ttcccccttg ccggtgtgaa cgacatggga agtgtaaaaa aacctgtatt gcctncagag 240
acccatattg tggatggata aaggaagggt gtgcctgcag ccatntatca cccaacagca 300
gactgacttt tgagcaggac atagagcatg gcaatacaga tggnctgggg gactgtcaca 360
attnctttgt ggcactgaat gggcattcca gttncctctt gccacgcaca accacatcag 420
attcgacggc tcaagagggg tatgagacta ngggaggaat gctggactgg aagcatntgn 480
ttgactcanc tgacagcaca gaccctttgg gggcaaggnc ttnccataat caccaaagac 540
aagaagggag tga 553

```

<210> 2191

<211> 627

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (610)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1458

<222> (611)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (612)
<223> n equals a,t,g, or c

<400> 2191
gcatgggagc tgttcagcag tttaacttag atgtcataca gtgtgaattg tttgccagct 60
ctgagcctgt gccaggattc cagggggata ccctgcagct agcattcatt gacctcagac 120
aactccttga cctgtttatg gtttgggatt ggtctactta cctagctgat tatgggcagc 180
cagcttctaa gtaccttcgg gtgaatccaa acacagccct tactcttttg gagaagatga 240
aggatactag caaaaagaac aatataatttg ctcagttcag gaagaatgat cgagacaaat 300
agaagttgat agagacagtc gtgaaacagc tgagaagttt ggtgaatggt atgtcccagc 360
acatgtagac ctcacatggc ttgcaactcag tgacacccaaa tccatgattc aatgttgatc 420
ttgagcaagt attggtcatg atacagtaat ttgtttacag aatccaaaaa tacaatagag 480
aagatacatg agggcttaaa caagaaatag taataaatat cattngtatt ggatttttaa 540
ataatcgatc tattttatat atggaaaaaa aatgaccatt ttttcacttt taggggnaaa 600
attgcnaaan nngtaatact taaattg 627

<210> 2192
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

1459

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<400> 2192
ggggaccact ntcttcttgg tacttctcag attttttttt ctttataacc cgtatgaatg 60
gtaggatcat tccttttttt gttccattta gagaaataac gtatgcagtg ggacccaaat 120
tctttttcac tcattgcatt attttgctct aaatacaggt aagtgtgtta acagaccagg 180
tggaggctca gggagagaag attcgagatt tggagttttg cttgaagagc acagagagaa 240
gttgaatgcc acagaagaaa tgctggaana ggtatgtcaa aggccagaac caagatggga 300
ttccctgntg aactntgtga natgctgcat tctntgttgg gtt 343

<210> 2193
<211> 642
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (568)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (609)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (611)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<400> 2193
gctgcgagaa gacgacagaa gggtagcggt gcgagaagac gacagaaggg tacggctgcg 60
agaagacgac agaaggggtt ttcgcaacgg gtttgccgcc agaacacagg tgctgtgaaa 120

1460

```

actaccacctta aaagccaaaaa tgggaaagga aaagactcat atcaacattg tcgtcattgg 180
acacgtagat tcggggcaagt ccaccactac tggccatctg atctataaat gcggtggcat 240
cgacaaaaga accattgaaa aatttgagaa ggaggtctgt gagatgggaa agggctcctt 300
caagtatgcc tgggtcttgg ataaactgaa agctgagcgt gaacgtggta tcaccattga 360
tatctccttg tggaaatttg agaccagcaa gtactatgtg actatcattg atgccccagg 420
acacagagac tttatcaaaa acatgattac agggacatct caagcttgac tgtgcttgtc 480
ctgattgggt gcttgctggg gttggtgaat ttggaagctg gnatcttcca agaatgggca 540
agaccccgag agcattgccc tttctggntt acaccacttg ggtggggaaa caacttaaat 600
ggcgggggnt naacaaaaat gganttcac ttggggccnc cc 642

```

<210> 2194

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 2194

```

gtgaaaaacc atatggcata gttgaaaaga agtccagaat attccctggt gatacaattc 60
tggagactgg agaagtaatt ccaccaatga aagaatttcc tgatcaacat cattaaagat 120
tatgtaaaaa gttaaaaggc ttatgagcct aagtttggtc ctatattacc atatttactg 180
aattttctgg aaanntaact tttaaataaa antttaatct cagaaatttg tcattgnnc 239

```

<210> 2195

<211> 290

<212> DNA

<213> Homo sapiens

1461

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 2195
gcgggcgcgag acggcggcgag tgcggccttgc tcttggaagt tcaggctcgg ttgtcttttg 60
ggagccatgg agagtgactt ttatctgcgt tactacgtgg ggcacaaggg caagtccggc 120
cacgagttcc tggagtttga gtttcgaccg gacgggaagt taagatatgc caactcagct 180
gctgctgntt ccatgtgttc tgggttcana ggtcatggct ncaccggtca gagenctgag 240
tgnctcaggg tttggcaatg gaatttttaa tgtaataaat ctttatngaa 290

<210> 2196
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

1462

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<400> 2196
ggcanagcag agagcagtgt acgatgagca gggaacagtg gacgaggact ctctgtgtct 60
cacccaagac cgagactggg aggcgtattg gcggtacttc tttaaaaaga tatctttaga 120
ggacattcaa gcttttgaaa agacatataa aggttcggaa gaagagctgg ctgatattaa 180
gcaggcctat ctggacttca aggggtgacat ggatcagatc atggagtctg tgctttgcgt 240
gcagtacaca gaggaaccca ggatgaagga ntatcattca gcaagctatt gacgccggag 300
aggtcccatc ctntnaatgc ctttgttcaa agattcgaaa caaagggtgna tgcaagggaa 360
aaggngggct caggang 377

<210> 2197
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>

1463

<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1464

<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)

1465

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 2197

```
caaagagtct accctgcacc tgggtgctccg tctcagaggt gggatgcaga tcttcgtgaa 60
gaccctgact ggtaagacca tcaccctcga antggagccg agtgacacca ttgagaatgt 120
cgaggcaaaag atccaagaca aggaaggcat ccctcctgac cagcanangt tgatctttgc 180
cggaaaaacag ctggaaaatg gtcgnncct gtctgactac cacatccaaa nagatccacc 240
ctgcacctgg tgctccgtct canangtggg atgcaaactt tccngaagac ctgactggta 300
anancatcan tctcgaantg gaccaaactg cacnttgaca atatcgnnng tagatcccan 360
acaaagaaaag ngncctctct gaacancana agttgatctt ttgggtgggga aacanttgga 420
anatggaccc ccctgtcttg actacnacat cccgaaagat ttccccctt gnccttggg 480
tgctnccnc ctttataang tgggggatgc aaaatcttcc ctntcaaaaa accccgaatt 540
g 541
```

<210> 2198

<211> 282

1466

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)

1467

<223> n equals a,t,g, or c

<400> 2198

```
aggggggatnt caatcggaac cnctaacaan ttatcccagg aaaccgctat gaccatgatt 60
acgccangct ctaatacgac tcactatagg gaaagctggg acgcctgcag gtaccggggc 120
ggaattcccg ggtcgaccca cgcgtccggg gttcagagct ttctggagng atatcttcag 180
cttgtgatna agagncaa atggaacgaa gagngatcac gatttctaaa tcagaatatt 240
ctgngcactc atctttggca tccaaagntg atgttgagca gg 282
```

<210> 2199

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1468

<222> (312)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (322)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (404)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (418)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (480)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (484)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (507)
 <223> n equals a,t,g, or c

<400> 2199
 ggcgttcttg gcgtcgggac cctacctgac ccatcagcaa aaggtgttgc ggctttataa 60
 gcgggcgcta cgccacctng agtcgtggtg cgtccanaga gacaaatacc gatactttgc 120
 ttgtttgatg agagcccggg ttgaagaaca taagaatgaa aaggatatgg cgaaggccac 180
 ccagctgntg aatgaagccc anggaaagaa ttctggtacc gcagnattna cagccataca 240
 tcttcctga ctctcctggg ggcacctcct atgagagata cgattgctac aaggtcccan 300
 aatggtgctt anatgacttg gnatccttct gagaaggcaa tgtatcctga ttactttgcc 360
 aagagagaa agtggaagaa actgcggagg gaaagctggg aacnagaggt taagcagntt 420
 gcaggaggaa acgccacctg gaggtccttt aactgaaagc ttttgcccc tgcncgaaan 480
 gaangtgatt ttgccccac ttgtggn 507

<210> 2200
 <211> 331

1469

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<400> 2200

```
gcgctgttgc ttgggaaaaa gggcatcgag aagaacctgg gcatcggcaa agtctcctct 60
tttgaggaga agatgatctc ggatgccatc cccgagctga aggcctccat caagaagggg 120
gaagatttcg tgaagaccct gaagtgaacc gctgtgacgg gtggccagtt tccttaattt 180
atgaaggcat catgtcactg caaagccgtt gcagataaac tttggatttt aaattgcttt 240
ggngatgatt actggattga catcatcatg ccttccaaat tgggggtggc tctgnngccc 300
cttaataaag ccgncttgat tttaaaaaan n 331
```

<210> 2201

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

1470

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<400> 2201
ctcgtgttct tgctgatatt accaagtcac tgactaatcc tacgccaata caacagcaac 60
tgagacgctt cactgaacat aactccagtc caaatgtcag tggaagcctc tcctctgggc 120
tgcagaaaat atttgangac cccactgaca gtgatttgca taaactaaaa tctccaagcc 180
aggacaacac agacagctac ttcagaggga aaacattatt gctgggttcag caagcctcct 240
ctcagagcat gacttattct gaaaaggatg aaagggaaag tagccttcct aatggtcgga 300
gcgctctcct catggacctc caggncactc atgctgctca agtggagcat gcacctgtca 360
tgcttgatgt gcctatacgc ttgaccggaa gccagctttc cataaccagc gtggccagca 420
tcaaacagct gcgggaaacc cagagcactn cccaaagtgc accccaagtg agaagg 476

<210> 2202
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>

1471

<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<400> 2202
gactagntnt ttatcgcnag cgttcgntcn agaggatcca ggcttacgta cgcgtgcatg 60
cgacgncata cactcttcta tagtagcnac ctacantcaa tncactggcc gtcgttcaac 120
nacgagcacg actgggaaaa ccctggagct acccaactta ntacgccttg cagcacatgc 180
ccnntctnc agctggcgta ataagggaa 209

<210> 2203
<211> 311
<212> DNA
<213> Homo sapiens

<220>

1472

<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<400> 2203
gcagcggcca cagcaattat atggtggact ggtaccaaca gagaccaggg aagggccccc 60
ggtttgtgat gcgagtgggc actagtggag ttgtgggacc caggggggat ggcattccctg 120
atcgcttctc agtcttggcc tcaggcctga gtcggggacct gaccatcacg aacatccagg 180
aaagangatg agagtgacta ctactgtggg acagatcatg gcagtgggaa caacttcctg 240
tcngtttttc cgcggaangg aaccaaactn aaccgtccta ctttcagccc caaggntgcc 300
ccccccngtt c 311

<210> 2204
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

1473

<220>
 <221> misc feature
 <222> (214)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (268)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (292)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (308)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (366)
 <223> n equals a,t,g, or c

<400> 2204
 ggaccttttgg agttccagct taaggggtatc agcctccctg gctgatgtaa gtcanaggcc 60
 tcttataccc actttgatga ggaaggactg tanagttgat gccaggcaga aacaggcaca 120
 tatgtgtgtc ttctgcctct cccagatcc tgtacttcac caatggccat ctgtatccaa 180
 ctggttctaa atcaaacggg tcagcctgct tcanaacccc cccacagtgg ggggtggcac 240
 actgaaactg actgacgtcc accctcanat actggaacct acctctgcca antcaacaac 300
 ccacccanat ttctacccca atngggtttgg ggctaatacca accttactgt ncttgttccc 360
 ccccnttat cccctta 377

<210> 2205
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 2205

1474

```
accgcccctg cctgcagttg aacgagtaaa gcctagaatc aaaaagaaaa caaaacccat 60
agtcaagcca cagacaagcc cagaatatgg ccaggggatc aatccgatta gccgactggc 120
ccagatccag caggcaaaga aggagaaggt ggccaagcgc aatgcagccg agaacatgct 180
ggagatcctt ggtttcaaag tcccgcaggc gcagccacca aaccgcact caagtcagag 240
gagaagacac ccataaagaa accaggggat ggaagaaaag taacctttt tgaacctggc 300
tctgggggatg aaaatgggac tagtaataaa gaggatgagt tcaggatgcc ttatctaagt 360
catcagcagc tgccctgctgg aattcttccc atgggtgccc aggtcgccca ggctgtagga 420
gttagtcaag gacatcacac caaagatttt accagggcag ctccg 465
```

<210> 2206

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

1475

<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)

1476

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 2206

```
ggggtgcaag agaccnccaa tgggtagcnc gccctacttt gantgaangg ancgcccgca 60
ggtaccgggt ccggaattcc cgggtcgacc cacgcgccct ttnntngccn ggggtgcagcc 120
ctgntggcag ggggcatttg ggngncaatc gatggggcat cctttctgaa gatcttcggg 180
cactgncgn ccagtgccat gcagttngtc aacgtgggct actnccat cgcagccggc 240
gtagtggctt ttgctcttgg antcctgggc tgntatgggt ctaagactga gagcaagn gn 300
gccctcgtga cgtacttcta catcctctc cn 332
```

<210> 2207

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

1477

<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<400> 2207
ggccagcatt gcttctacca gctggcggca cttcgcgagg gtggcttaca ttgtggaagg 60
ggactttact ggtgttctcc ttccagaact agtagtttct atagtgttc tgctcagtaa 120
aaatgctggt ctcatgcaag aggctggagc tgtacctntg ctgggtggcc tgttgggaaca 180
tctggatcgg ttcaaccatc tggcaccagg aaaggaacgg gatgatcatg aagagttagc 240
ctgcctggca taatggagtc attttttaca ggtcagaact gtagaaataa tgaggaagtg 300
acacttatac gcaaagctga tttggagaac cataataaan atggangctt ctggactgtg 360
attgacggga aggtgtatga tataaaggga ctttcagaca cagtnggtaa caggaaatan 420
tattctgctt aanttгнаag ggaaagaacc an 452

<210> 2208
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1478

<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<400> 2208
gatttaatta tnnnctagat tgtctgggca acggcagaac ggagtgccac tgtggagcan 60
ataactgcag tggtttttcta ggagtgcggc caaagtcggc atgtgcgtna acaaataaag 120
agaaggcaaaa aaatgctaag ttaaaacaga agagacgaaa gatcaaaaaca gaaccaaagc 180
atatgcatga agattactgt tttcaatgtg gagatgggtg anagctggtc atgtgtgaca 240
aaaaagantg tccaaagtat accaccttcc tattgccntn aanctgactt aagcc 295

<210> 2209
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>

1479

<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<400> 2209
ggaaagcgcc gagatgacgg gctttctgct gccgcccgca agcagagggga ctcgagagatc 60
atgcagcana agcagaaaaa ggcaaacgag aagaaggagg aaccaagta gctttgtggc 120
ttcgtgtcca accctcttgc ccttcgcctg tgtgcctgga gccagtcca ccacgctcgc 180
gtttcctcct gtagtgetca caggteccag caccgatggc attccctttg ccctgagtct 240
gcagcggggtc ccttttgtgc ttccttcccc tcaggtagcc tctctcccc tgggccactc 300
ccgggggtga ggggggtacc cctttccagt gntttttatt cctgnggggc ttaccccaaa 360
agtattaaaa agtagctttg naattcaaaa aaaatntant 400

<210> 2210
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)

1480

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 2210

```

gtgnaacgtc cgacagaacg aggggacgta acggaggcag gttggagccg ctgccgtcgc 60
catgacccgc ggtaaccagc gtgagctcac ccgccagaag aatatgaaaa agcagagcga 120
ctcggttaag ggaaagcgcc gagatgacgg gctttctgct gctncccgca agcagaggga 180
ctcggagatc atgcagcaga agcagaaaaa ggcaaacgag aagaaggagg aacccaagta 240
gctttgtggc ttcgtgtcaa cctntttgcc cttcgcctgt gtgcctggaa ccaagtccca 300
ccangctcgc gtttcctcct tgtagtgctc acagggtccag naccgatggg attccctttg 360
cccttgantc tgcaacnggg g 381

```

<210> 2211

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature .

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

1481

<220>
 <221> misc feature
 <222> (9)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 2211
 ggnccagngna aaaagtgtgn cctccatata cccaagaaat gagggtctta gcgaaagnac 60
 ctaattcagc gtcttttgat gaaagatccc aagaagagat tgggatgtgg tccacgtgat 120
 gcagatgaaa tcaaagaaca tctcttcttt cagaaaataa attgggatga tttagccgcc 180
 aaaaaagtgc ctgcaccatt taagccagtc attcgagatg aattagatgt gagtaacttt 240
 gcagaagagt tcacagaaat ggatcccact tattctcccg cagccctgcc ccagagttct 300
 gaggaagctg tttcagggct attctttggt gctccttcca tctattcaa acgtaatgca 360
 gctgtcatag accctcttca gtttcacatg ggagttgaac gtctggagtg acaaatgttg 420
 ccaggagtgc aatgatgaag gactctncat tctatca 457

<210> 2212
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 2212
 tgaaaaggac tcttggaag tgaaaacttt agatgaaatt cttcaggaaa agaaacgaag 60
 gaaggaacaa gaggagaaag cagagataaa acgcttaaaa aataacaacg cttcttcggt 120
 gaagttcttt tgtacttcca aatgtcgcag tctgatgacc gggattccaa gcgggattcc 180
 cttgaggagg gggagctgag agatcacccg atggagatca caataaggaa ctccccgtat 240
 agaagagaag actctatgga agacatctcc ccacaactgc cactgctcac caggacaagc 300
 tgcccttctt gtctccacct ctacgtcccc ctagaatgga tggctggggg agaggtggag 360
 gctgacagct gagacgtagt gtca 384

<210> 2213
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

1482

<222> (136)

<223> n equals a,t,g, or c

<400> 2213

```
gaactgtctt cagtagttag ttcaagtgga acagaggggtg cttccagttt ggagaaaaag 60
gaggttccag gagtagattt tagcataact caattcgtaa ggaatcttgg acttgagcac 120
ctaattggata tatttnagag agaacagatc actttggatg tattagttga gatggggcac 180
aaggagctga aggagattgg aatcaatgct tatggacata ggcacaaact aattaaagga 240
gtcgagagac ttatctccgg acaacaaggt cttaacccat atttaacttt gaacacctct 300
ggtagtggaa caattcttat agatctgtct cctgatgata aagagtttca gtctgtggag 360
gaagagatgc aaagtacagt tcgagagcac agagatggag gtcatgcagg tggaatcttc 420
aacagataca atattctcaa gattcagaag gtttgtaaca 460
```

<210> 2214

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

1483

<223> n equals a,t,g, or c

<400> 2214

```
ggtacagtcc ggagctgagg ngaaggngtc cggggagttct ctgagcatct cctgtcaggt 60
gtctggatac accctcacca gttattggat caactgggtg cgccagatgc ccgggaaagg 120
cctggagtggt atgggcaggc ttgatccttc tgactctttt atcaattaca atccgtcctt 180
cgaaggccac atctccatct cagctgacaa gttcatcagc accgcctatt taaagtggaa 240
caccttggtg gcctcggaca ccgccatgta ttactgtgcc ctttccgggc gacaacaact 300
cgtccccgtc tactgggggc agggaaccca ggtcanccgn cttcttanca atccccganca 360
gncccaaagg ctttccgctg aacctttg 388
```

<210> 2215

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

1484

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>

1485

<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature

1486

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<400> 2215

```
naattcggca nagccaaaat gtaccgggggt gtgctggatg ccacgcagag gcagcttaca 60
gtcaccgtga ctnagnaagt tctcagttag gttcaaggag aacagtgtgg ctgtcaagggt 120
cgtccagggc cctgcagggtg gtgacaacag naagntacgt tacaaaaaaaa aggggagtca 180
ttgcttggnng gtgactntgc agttaggagg gggcaccatg cagagatggc anttncttcc 240
tcctgaacca gcactaatch cncctttgncc tnnctttttt ggggggttnt ttaancncnt 300
tnnntngggg gggnganggt tnggggttta aantnccctt ttgggggggaa aaaaaaaaaa 360
aaaatttttg ggggggggnc cccg                                     384
```

<210> 2216

<211> 289

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

1487

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<400> 2216
gattgaacag aagtatgcc a tatagtacaa ttacagctat gttacaggat caaaattaat 60
ttcaaaccctt ccaaccaacc ctataagccg tctcatcagt ctctaataga ctcattttca 120
gctatttagat atggatgata tatgatgatt ncattatcat atttttcaag gacttactta 180
ntggctgatt atcagtggta aatcctccaa ngagaaaatn gatgatctga agaaactggn 240
gttagtgagt gccaagattn gaccaantgg gcatatgcct tgtggaatt 289

<210> 2217
<211> 408
<212> DNA
<213> Homo sapiens

<400> 2217
ctgggagcgc ctgccttctc ttgccttgaa agcctcctct ttggacctag ccaccgctgc 60
cctcacggta atgttggaact cggtgacaca cagcaccttc ctgcctaata catccttctg 120
cgatcccctg atgtcgtgga ctgatctgtt cagcaatgaa gagtactacc ctgcctttga 180
gcatcagaca gcctgtgact catactggac atcagtcac cctgaatact ggactaagcg 240
ccatgtgtgg gagtggctcc agttctgctg cgaccagtac aagttggaca ccaattgcat 300
ctccttctgc aacttcaaca tcagtggcct gcagctgtgc agcatgacac aggaggagtt 360
cgtcgaggca gctggcctct gcggcgagta cctgtacttt caattcct 408

<210> 2218
<211> 614
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

1488

<400> 2218

```
ccaacccctca ctaaaggggaa caaaagctgg agctccaccg cgggtgncggc cgctctagaa 60
ctagtggatc ccccgggctg caggaattcg gcacgaggaa aattgaacaa gatggacggg 120
tccaggaaaag aggaggagga agacagcaca ttcaccaaca tttctcttgc agatgacata 180
gaccattcct caagaatttt gtatccaagg cccaaaagtt tgttacccaa gatgatgaat 240
gctgacatgg atgatctctc tgcaagagta gatgcagtta aggaagaaaa tctgaagcta 300
aaatcagaaa accaagttct tngacaatat atagaaaatc tcatgtcagc ttctagtgtt 360
tttcaaacaa ctgacacaaa aagcaaaaaga aagtaaggga ttgacaccct tctgttttat 420
ggaattnctg ctgatcattt tttcttttaa acttggatag attccaaaag ttacagtacc 480
tttgtggctt cattgaatat ttatgaagat aatgtcagat gtagacaaaa ataacacaat 540
aacaggagac ttncataagt ttgtgtatta tgttagtcta tgaaaacgtg caaatgtatt 600
gtagagactt tatg 614
```

<210> 2219

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature